

the treatment, prevention and diagnosis of medical conditions caused by P. acnes. The disorders include SAPHO syndrome (synovitis, acne, pustulosis, hyperostosis and osteomyelitis), uveitis and endophthalmitis. P. acnes is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of P. acnes in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention and determining the amount of bound protein in the sample. The polypeptides may be used as antigens in the production of antibodies specific for P. acnes proteins. These antibodies can be used to downregulate expression and activity of P. acnes polypeptides and therefore treat P. acnes infections. The antibodies may also be used as diagnostic agents for determining P. acnes presence, for example, by enzyme linked immunosorbent assay (ELISA). Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

Query Match 7.9%; Score 84.5; DB 4; Length 436;  
Best Local Similarity 26.0%; Pred. No. 4.5;  
Matches 45; Conservative 20; Mismatches 61; Indels 47; Gaps 9;  
SQ Sequence 436 AA;  
23 DKITEINKAI---DDAIAIEQSEITD---PMKVPDHADKPERHVGIVD-----F 67  
230 DATLVEVNPMTKTGDGRILADIGKMTVDNNASFRQPDHA-----GLVDRATTDPLELR 282  
68 KGELAMRNIEARGLKQMKRGDANVKGE-EGIVKAHLILIGVHDDIVSMYEDLAYKGLDLH 126  
283 AGEL-----GLNVKLDGNVGVINGAGLWSTL-----DCVAYAGENF 321  
127 PTHVVISDIQDFVVALSLEISDEG-NITWTSFEVRQFANVNVHIGLSILDPI 178  
322 PGSPAPANFLDIGGASAEIMANGLDLIMSDEQVRSV--FVNVEGGITACDQV 372

RESULT 60  
ABM54622  
ID ABM54622 standard; protein; 436 AA.  
AC ABM54622;  
20-OCT-2003 (first entry)  
Propionibacterium acnes predicted ORF-encoded polypeptide #19298.  
Acne vulgaris; antiseborrheic; dermatological; antibacterial;  
immunostimulant; immune response; vaccine.  
Propionibacterium acnes.  
W02003033515-A1.  
24-APR-2003.  
11-OCT-2002; 2002WO-US032727.  
15-OCT-2001; 2001US-00978825.  
(CORI-) CORIXA CORP.  
Mitcham JL, Skeiky YAW, Persing DH, Bhatia A, Maisonneuve JL;  
Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;  
Barth B, Vallieue-Douglas J;  
WPI: 2003-381789/36.  
N-PSDB; ACF64517.  
New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.

XX Example 1; SEQ ID NO 19298; 1481pp; English.  
XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733) encoding a Propionibacterium acnes protein. The invention also relates to polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to immunogenic fragments of P. acnes polypeptides. The invention additionally encompasses expression vectors and host cells comprising a polynucleotide of the invention; antibodies against polypeptides of the invention; fusion proteins comprising a polypeptide of the invention; a method for stimulating an immune response specific for a P. acnes polypeptide and an isolated T cell population comprising T cells prepared via this method; a vaccine composition (comprising P. acnes polypeptides, polynucleotides, antibodies, fusion proteins, T cell populations, or antigen-presenting cells that express the polypeptide); a method and kit for detecting or determining the presence or absence of P. acnes in a patient; and a method for inhibiting the development of P. acnes in a patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion proteins, T cell populations or antigen-presenting cells that express the polypeptides are useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein. The polynucleotides can also be used as probes or primers for nucleic acid hybridisation. The vaccine composition is useful for the stimulation of an immune response against P. acnes, or for treating acne, and the kit is useful for performing a diagnostic assay. The present sequence represents a polypeptide predicted to be encoded by an ORF (open reading frame) contained within the P. acnes polynucleotides of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

Query Match 7.9%; Score 84.5; DB 6; Length 436;  
Best Local Similarity 26.0%; Pred. No. 4.5;  
Matches 45; Conservative 20; Mismatches 61; Indels 47; Gaps 9;  
SQ Sequence 436 AA;  
23 DKITEINKAI---DDAIAIEQSEITD---PMKVPDHADKPERHVGIVD-----F 67  
230 DATLVEVNPMTKTGDGRILADIGKMTVDNNASFRQPDHA-----GLVDRATTDPLELR 282  
68 KGELAMRNIEARGLKQMKRGDANVKGE-EGIVKAHLILIGVHDDIVSMYEDLAYKGLDLH 126  
283 AGEL-----GLNVKLDGNVGVINGAGLWSTL-----DCVAYAGENF 321  
127 PTHVVISDIQDFVVALSLEISDEG-NITWTSFEVRQFANVNVHIGLSILDPI 178  
322 PGSPAPANFLDIGGASAEIMANGLDLIMSDEQVRSV--FVNVEGGITACDQV 372

RESULT 61  
AAG81478  
ID AAG81478 standard; protein; 817 AA.  
XX AAG81478;  
03-SEP-2001 (first entry)  
S. epidermidis open reading frame protein sequence SEQ ID NO:50.  
Staphylococcus epidermidis SRI strain; infection; diagnosis; vaccination;  
endocarditis.  
Staphylococcus epidermidis.  
W0200134809-A2.  
17-MAY-2001.  
09-NOV-2000; 2000WO-US030782.  
09-NOV-1999; 99US-0164258P.  
XX

PA (GLAX ) GLAXO GROUP LTD.  
 XX Kimmerly WJ;  
 PI  
 XX  
 XX  
 DR WPI; 2001-316495/33.  
 DR N-PSDB; AAH52328.  
 XX  
 XX Nucleic acids encoding polypeptides from Staphylococcus epidermidis,  
 PT useful for vaccinating against infections, e.g. endocarditis.  
 XX  
 XX Claim 18; Page 59; 2188pp; English.  
 XX  
 XX AAH52304 to AAH53970 represent nucleic acids (I) encoding polypeptides  
 CC (II), given in AAG81454 to AAG83120, from Staphylococcus epidermidis. (I)  
 CC and (II) can have antibacterial activity and therefore can be used in  
 CC vaccination. The nucleic acids (I) may be used to produce the S.  
 CC epidermidis polypeptides (II) via the production of vectors containing  
 CC them which are used to produce hosts cells which express the  
 CC polypeptides. The polypeptides (II) (and/or nucleic acids) may then be  
 CC used to vaccinate subjects and to raise antibodies against the bacteria.  
 CC The polypeptides may also be used to assay for other inhibitors of their  
 CC activity and therefore identify compounds that may be used for the  
 CC treatment of S. epidermidis infections, e.g. endocarditis. AAH53971 to  
 CC AAH5090 represent specifically claimed S. epidermidis genomic DNA  
 CC polynucleotide sequences from the present invention. AAH5091 to AAH5098  
 CC represent oligonucleotide sequences and primers which are used in the  
 CC exemplification of the present invention. N.B. The present invention  
 CC specifically claims all the polynucleotide sequences given in the  
 CC sequence listing of the present specification, however the sequence  
 CC listing only goes up to SEQ ID NO:4454 so even though sequences are given  
 CC in the disclosure for SEQ ID NO:4465 to 4472, no sequences are present  
 CC for SEQ ID NO:4455 to 4464  
 XX Sequence 817 AA;  
 XX  
 XX Query Match 7.9%; Score 84.5; DB 4; Length 817;  
 XX Best Local Similarity 23.0%; Pred. No. 11;  
 XX Matches 50; Conservative 35; Mismatches 87; Indels 45; Gaps 11;  
 QY 18 DPH-----YDKITEINKAIDDAIAEQSETIDPMKVPDHADKFERHVGIVDFKGEA 72  
 Db 504 DTLHKRVIGQNDVANSISKAVRARAGLK-----DP-----KRPISGIFLPGTG 548  
 QY 73 MENIE-ARGL-KOMKROGDANVKE-EGIVKAHL---LIGV-----HDDIVSMEYDLAY 120  
 Db 549 VGKTELARALAESMGEDDAMIRVDMSEFMKHAVSRVLGAPPGVGVGHDDGQLTEKVR 608  
 QY 121 KLGDLPHTHTVSD----IQDFVVALSLEISDEGNITMTSFEVROFANV-----NHIGGL 172  
 Db 609 K-----PYSVILFDEIEKAHPDVFNILLQVLDGHLTDTKGRTVDFRNTVIIMTSNVGAQ 663  
 QY 173 SILDPFVGLSDVLTAFQDVTVRKEMTKVLAPAFKRE 209  
 Db 664 ELQDQRFAGFGGASGSDYETVRKTMKELKNSFRPE 700  
 RESULT 62  
 AAG82217  
 ID AAG82217 standard; protein; 817 AA.  
 XX  
 AC AAG82217;  
 XX  
 DT 03-SEP-2001. (first entry)  
 XX  
 XX S. epidermidis open reading frame protein sequence SEQ ID NO:1528.  
 DE  
 XX  
 XX Staphylococcus epidermidis SR1 strain; infection; diagnosis; vaccination;  
 KW endocarditis.  
 KW  
 XX Staphylococcus epidermidis.  
 OS  
 XX  
 XX WO200134809-A2.  
 FN  
 XX

PD 17-MAY-2001.  
 XX  
 XX 09-NOV-2000; 2000WO-US030782.  
 XX  
 XX 09-NOV-1999; 99US-0164258P.  
 XX  
 XX (GLAX ) GLAXO GROUP LTD.  
 PA  
 XX Kimmerly WJ;  
 PI  
 XX  
 XX WPI; 2001-316495/33.  
 DR N-PSDB; AAH53067.  
 DR  
 XX Nucleic acids encoding polypeptides from Staphylococcus epidermidis,  
 PT useful for vaccinating against infections, e.g. endocarditis.  
 XX  
 XX Claim 18; Page 432; 2188pp; English.  
 XX  
 XX AAH52304 to AAH53970 represent nucleic acids (I) encoding polypeptides  
 CC (II), given in AAG81454 to AAG83120, from Staphylococcus epidermidis. (I)  
 CC and (II) can have antibacterial activity and therefore can be used in  
 CC vaccination. The nucleic acids (I) may be used to produce the S.  
 CC epidermidis polypeptides (II) via the production of vectors containing  
 CC them which are used to produce hosts cells which express the  
 CC polypeptides. The polypeptides (II) (and/or nucleic acids) may then be  
 CC used to vaccinate subjects and to raise antibodies against the bacteria.  
 CC The polypeptides may also be used to assay for other inhibitors of their  
 CC activity and therefore identify compounds that may be used for the  
 CC treatment of S. epidermidis infections, e.g. endocarditis. AAH53971 to  
 CC AAH5090 represent specifically claimed S. epidermidis genomic DNA  
 CC polynucleotide sequences from the present invention. AAH5091 to AAH5098  
 CC represent oligonucleotide sequences and primers which are used in the  
 CC exemplification of the present invention. N.B. The present invention  
 CC specifically claims all the polynucleotide sequences given in the  
 CC sequence listing of the present specification, however the sequence  
 CC listing only goes up to SEQ ID NO:4454 so even though sequences are given  
 CC in the disclosure for SEQ ID NO:4465 to 4472, no sequences are present  
 CC for SEQ ID NO:4455 to 4464  
 XX Sequence 817 AA;  
 XX  
 XX Query Match 7.9%; Score 84.5; DB 4; Length 817;  
 XX Best Local Similarity 23.0%; Pred. No. 11;  
 XX Matches 50; Conservative 35; Mismatches 87; Indels 45; Gaps 11;  
 QY 18 DPH-----YDKITEINKAIDDAIAEQSETIDPMKVPDHADKFERHVGIVDFKGEA 72  
 Db 504 DTLHKRVIGQNDVANSISKAVRARAGLK-----DP-----KRPISGIFLPGTG 548  
 QY 73 MENIE-ARGL-KOMKROGDANVKE-EGIVKAHL---LIGV-----HDDIVSMEYDLAY 120  
 Db 549 VGKTELARALAESMGEDDAMIRVDMSEFMKHAVSRVLGAPPGVGVGHDDGQLTEKVR 608  
 QY 121 KLGDLPHTHTVSD----IQDFVVALSLEISDEGNITMTSFEVROFANV-----NHIGGL 172  
 Db 609 K-----PYSVILFDEIEKAHPDVFNILLQVLDGHLTDTKGRTVDFRNTVIIMTSNVGAQ 663  
 QY 173 SILDPFVGLSDVLTAFQDVTVRKEMTKVLAPAFKRE 209  
 Db 664 ELQDQRFAGFGGASGSDYETVRKTMKELKNSFRPE 700  
 RESULT 63  
 ABU43148  
 ID ABU43148 standard; protein; 817 AA.  
 XX  
 AC ABU43148;  
 XX  
 DT 19-JUN-2003 (first entry)  
 XX  
 XX Protein encoded by Prokaryotic essential gene #28675.  
 DE Antisense; prokaryotic essential gene; cell proliferation; drug design.  
 KW



Dd	615	K-----PYSVILFDEIEKAPDVENILLOVLDDGHLTDTKGRVDFPENTVIIMTSNVGAQ 669	
Qy	173	SILDPFGVLSVLTALFQDTRKEMTKVLAPAKRE 209	
Dd	670	ELQDRFAGFGGASEGSDYETVRKTMKELKNSFRPE 706	
RESULT 65			
AY36871	ID	AA36871 standard; protein; 1396 AA.	
XX	AC	AA36871;	
XX	DT	07-OCT-1999 (first entry)	
XX	DE	Protein involved in intermediate metabolism of polypeptides.	
XX	KW	Vaccine; eye disease; conventional trachoma; nonendemic trachoma; paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis; nongonococcal urethritis; epididymitis; cervicitis; salpingitis; bartholinitis; pneumopathy; venereal lymphogranulomatosis.	
XX	OS	Chlamydia trachomatis.	
XX	PN	WO928475-A2.	
XX	PD	10-JUN-1999.	
XX	PF	27-NOV-1998; 98WO-IB001939.	
XX	PR	28-NOV-1997; 97FR-00015041.	
XX	PR	17-DEC-1997; 97FR-00016034.	
XX	PR	04-NOV-1998; 98US-0107077P.	
XX	PA	(GEST ) GENSET.	
XX	PI	Griffais R;	
XX	DR	WPI; 1999-371125/31.	
XX	PT	Genome sequence of Chlamydia trachomatis.	
XX	PS	Disclosure; Page 739-741; 1755pp; English.	
XX	CC	AA36754-Y37949 are encoded by open reading frames (ORFs) of the genome of Chlamydia trachomatis (see AA201425). The polypeptides can be used as vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as nongonococcal urethritis, epididymitis, cervicitis, salpingitis, and perihepatitis, bartholinitis; pneumopathy in breast feeding infants; and venereal lymphogranulomatosis. The polypeptides of the invention may be of use in treating these diseases	
XX	SQ	Sequence 1396 AA;	
Query Match			
Best Local Similarity 7.9%; Score 84.5; DB 2; Length 1396;			
Matches 49; Conservative 34; Mismatches 66; Indels 59; Gaps 12;			
Qy	43	SETIDPMKVPDADKPERHVGIVDFKGLAMENI-----EARGLKQ-----MKRQ 87	
Dd	1145	ALVLEARKPEDAAD-IAKIDGVDFKQKKNRILVVRDEITGMEEHLSLTKEHLIVQR 1203	
Qy	88	GDANVKGE---EGIVKAHLI---GVHD--DIVSMEYDLAYKLGDLHPTTHVIGDIQDFV 139	
Dd	1204	GSVIVKGQQLDGLVVPHEILAICGVRLOKYLNVNEVOEVRLOQV-----DINDKH 1255	
Qy	140	VAL-----SLEISDEGNITW---TSFEVROFANV---VNHIGG-----LSILDLP 177	
RESULT 66			
ABB58245	ID	ABB58245 standard; protein; 1887 AA.	
XX	AC	ABB58245;	
XX	DT	26-MAR-2002 (first entry)	
XX	DE	Drosophila melanogaster polypeptide SEQ ID NO 1527.	
XX	KW	Drosophila; developmental biology; cell signalling; insecticide; pharmaceutical.	
XX	OS	Drosophila melanogaster.	
XX	PN	WO200171042-A2.	
XX	PD	27-SEP-2001.	
XX	PF	23-MAR-2001; 2001WO-US009231.	
XX	PR	23-MAR-2000; 2000US-0191637P.	
XX	PR	11-JUL-2000; 2000US-00614150.	
XX	PA	(PEKE ) PE CORP NY.	
XX	PI	Venter JC, Adams M, Li PWD, Myers EW;	
XX	DR	WPI; 2001-656860/75.	
XX	DR	N-PSDB; ABL02348.	
XX	PT	New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell interactions.	
XX	PS	Disclosure; SEQ ID NO 1527; 21pp + Sequence Listing; English.	
XX	CC	The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABLI6176-ABLI3051), expressed DNA sequences (ABLI01840-ABLI6175) and the encoded proteins (ABB57737-ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences	
XX	SQ	Sequence 1887 AA;	
Query Match			
Best Local Similarity 7.9%; Score 84.5; DB 4; Length 1887;			
Matches 58; Conservative 33; Mismatches 86; Indels 79; Gaps 12;			
Qy	17	ADPHYDKITEENKKAIDDAIAISQSEITDPMKVPDHA--DKPERHVGIV-----DFKG 69	
Dd	686	ADQPTNEIQQAIAKKAKDDVINVIQAHNMELEPTFGTLRQTFENKYNRLINDARDKTG 745	
Qy	70	ELAMRNI-EARGLKQMKRQ-----GDANVKGE---GIVKAHLIIGVHD 109	
Dd	746	GSAKSLTEVNNLKAAMVWSGSKSNINISQVIACVQQNVGKRIYFGFRKTLPHFIKD 805	
Qy	110	D-----IVSMEYDLAYKLGDLHPT---HVISDIQDFVALSLEISDEGNI-----T 153	
Dd	806	DYGPESGRGFVNSY-----LAGLTPSEFYFHGNG-REGLIIDTAVKTAETGYIQRLIKA 859	



Db 130 VANKPASQTQIDWGEHOMKTGDLIVTSADPVLQIAAHEDIPLLELYDICEKVELT 189  
Qy 126 HPTTHVTSIDQDFVALSLSEISDEGNITMTS----FEVROFA-NVNHI--GGLSILDPI 178  
Db 190 KDPKYLIGRI-----IARPY-VGEPGNFTR--SNRHDYALKPFGTKVLDHLKDGGDYDI--A 242  
Qy 179 FGVLSDV 185  
Db 243 IGINDI 249

RESULT 69  
AA59996  
XX AA59996 standard; protein; 410 AA.  
AC AA59996;  
DT 31-JAN-2000 (first entry)  
XX Human endometrium tumour EST encoded protein 56.  
DE Endometrium; human; tumour; cancer; anticancer; cytostatic;  
KW EST: treatment; uterine; gene therapy; expressed sequence tag.  
XX Homo sapiens.  
OS DE19817948-A1.  
PN 21-OCT-1999.  
PD 17-APR-1998; 98DE-01017948.  
PF 17-APR-1998; 98DE-01017948.  
PR (META-) METAGEN GES GENOMFOORSCHUNG MBH.  
PA Rosenthal A, Specht T, Hinzmann B, Schmitt A, Pillarsky C, Dahl E;  
PI WPI; 1999-591957/51.  
DR N-PSDB; AA241999.  
XX New nucleic acid sequences expressed in uterine cancer tissues, and  
PT derived polypeptides, for treatment of uterine and endometrial cancer and  
PT identification of therapeutic agents.  
XX Claim 23; Page 237; 444pp; German.  
XX This invention describes novel human nucleic acid (cDNA) sequences (A),  
CC that are highly expressed in uterine tumour tissue and which have  
CC anticancer and cytostatic activity. (A) are used (i) for recombinant  
CC expression of polypeptides (B) and (ii) to isolate complete genes. (B)  
CC are used (i) to identify agents suitable for treatment of uterine or  
CC endometrial cancer; (ii) directly for treating these forms of cancer  
CC (including expression from gene therapy vectors) and (iii) for generation  
CC of specific antibodies. (A) are identified by assembling ESTs (expressed  
CC sequence tags) from a particular tissue type before comparison of  
CC expression patterns. This allows a significantly longer fragment of the  
CC gene to be revealed, so should reduce the number of failures associated  
CC with the fact that ESTs from different libraries may represent different  
CC parts of the same unknown gene, distorting the estimated frequency of  
CC occurrence in a particular tissue. AA59941-Y60328 represent protein  
CC fragments encoded by the human endometrium tumour cDNA library derived  
CC EST fragments represented in AA241981-Z42121  
XX Sequence 410 AA;  
SQ

Query Match 7.9%; Score 84; DB 2; Length 410;  
Best Local Similarity 22.1%; Pred. No. 4.6;  
Matches 40; Conservative 33; Mismatches 62; Indels 46; Gaps 9;

Qy 15 VSADPIHYDKITEINKAIDDAIAEQSETIDPMKVPDHD-KFERHVGIV---DFKGE 70  
Db 246 VSAEKVK---THSVNGITEADPTIYSGKVRPUSVDPQTQTEYQGNIEIVEGDMKGE 302

Qy 71 LAMRNIEARGLKQMKROGDANVKGEIGVKAHLIGVHDDIVSMEYDIA----- 119  
Db 303 -----VYFGIVGMANKGDCLOKGES--VKFQLCV-LQNAQTWAYNITPLRRATVECVK 354  
Qy 120 -----YKLDELHPTTHVTSIDQDFVALSLSEISDEGNITMTSFEVROFANVNHIGGL 172  
Db 355 DQFGFIVEVGSCKLFFHVKEVD---GIELQAGDE-----VEFSVIPKSSGGL 401  
Qy 173 S 173  
Db 402 A 402

RESULT 70  
ABB53885  
ID ABB53885 standard; protein; 775 AA.  
XX ABB53885;  
XX 29-AUG-2003 (revised)  
DT 16-MAY-2002 (first entry)  
XX Lactococcus lactis protein yf90.  
DE Lactococcus lactis; IL1403.  
XX Biosynthesis; biodegradation; lactic bacterium; yogurt; cheese.  
XX Lactococcus lactis; IL1403.  
XX FR2807446-A1.  
PN 12-OCT-2001.  
PD 11-APR-2000; 2000FR-00004630.  
PF 11-APR-2000; 2000FR-00004630.  
PR (INRG) INRA INST NAT RECH AGRONOMIQUE.  
XX Bolotine A, Sorokine A, Renault P, Ehrlich SD;  
PI WPI; 2002-043418/06.  
DR New nucleotide sequence useful in the identification of Lactococcus  
XX lactis and related species.  
PT Claim 6; SEQ ID NO 587; 2504pp; French.  
XX The present invention is related to a Lactococcus lactis nucleotide  
CC sequence (ABA90521) and related proteins (ABB53300-ABB55621). The nucleic  
CC acid sequence is useful in the detection and/or amplification of nucleic  
CC acid sequence, particularly to identify Lactococcus lactis or related  
CC species. The proteins of the invention are useful for the biosynthesis or  
CC biodegradation of a composition of interest. The invention helps research  
CC in lactic bacteria, particularly useful in the production of yogurt and  
CC cheese. Note: The sequence data for this patent is based on equivalent  
CC patent WO200177334 (published 18-OCT-2001) which is available in  
CC electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences. (Updated on 29-AUG-2003 to  
CC standardise OS field)  
XX Sequence 775 AA;  
SQ

Query Match 7.9%; Score 84; DB 5; Length 775;  
Best Local Similarity 19.8%; Pred. No. 11;  
Matches 50; Conservative 37; Mismatches 103; Indels 62; Gaps 6;

Qy 22 YDKITEINKAIDDAIAEQSETIDPMKVPDHD-KFERHVGIVDFKGE-----AMEN 75  
Db 397 YEKVSSEIHLLEEGFRVLVLGATKE--KIYQMLGVALGYVLNPIRENKSTFNY 454  
Qy 76 IEARGLKQMKROGD-----ANVKGEGIVKAHL----- 104

Db 455 FAEQGVNIKVISGDNPTVSAVAKRAGITGAERPIDANLLKTKEDLDQAVESVTVGRVT 514  
QY 105 -----IGVHDDIVSMEYD-----LAYKLGDLHPHTTHVISDQDFVVALSLEISDE 149  
Db 515 PDQKRRLVQALKRKDHTVAMTGGVNDILAMKADCSIAMASGSDAATQVAVVLLDSDF 574  
QY 150 GNTMTSFEVQRPANVNHIGLSILDPIFGVLSDLVLTALFQDVTVERKWT-----V 201  
Db 575 GHTQVVTGRRVNNVQRSAILFLVKNLFSIILAIISAFVETPLQASQSLISLFTI 634  
QY 202 LAPAFKRELEKN 213  
Db 635 GIGFLLSLEEN 646  
  
RESULT 71  
AAE36119  
ID AAE36119 standard; protein; 9510 AA.  
XX  
AC AAE36119;  
DT 26-JUN-2003 (first entry)  
XX  
XX Streptomyces nodosus amphi gene encoded protein.  
DE Polyene; antibiotic; amphotericin; amph; polyketide synthase; enzyme.  
KW Streptomyces nodosus.  
OS Streptomyces nodosus.  
XX W0200297082-A2.  
XX  
XX 05-DEC-2002.  
XX  
XX 27-MAY-2002; 2002WO-IB0000071.  
XX  
XX 31-MAY-2001; 2001IB-00000527.  
XX  
XX (UYDU-) UNIV COLLEGE DUBLIN.  
XX  
XX Caffrey JP;  
XX  
XX WPI; 2003-201271/19.  
XX N-PSDB; AAD34645.  
XX  
XX Novel cytochrome P450 enzyme and nucleotides encoding the enzyme, useful  
PT for preparing amphotericin derivative or analog antibiotic agent with  
PT altered properties, in biosynthesis of polyketide other than  
PT amphotericin.  
XX  
PS Claim 6; Page 120-162; 276pp; English.  
XX  
CC The invention relates to the gene cluster encoding the polypeptides  
CC responsible for the biosynthesis of the polyene antibiotic amphotericin  
CC (amph) of Streptomyces nodosus. Polynucleotides of the invention are  
CC useful for preparing amphotericin derivatives or analogue antibiotic  
CC agents with altered properties and in the biosynthesis of polyketides  
CC other than amphotericin. amphDII, amphDII or amphDII mutants are useful  
CC for producing amphotericin derivatives glycosylated with alternative  
CC sugars; amphDII or amphDII gene sequences are useful in engineered  
CC biosynthesis of perosaminyl-amphoteronolide B; amphDIII or amphDII and  
CC amphN gene sequences are useful in the engineered biosynthesis of  
CC perosaminyl-16-desacarbonyl-16-methyl amphoteronolide B; amphDIII, amphDII  
CC and amphI gene sequences are useful for preparing polypeptides capable  
CC of addition of mycosamine to a polyketide other than amphoteronolide A or  
CC B or for preparing polypeptides for in vitro synthesis of GDP-mycosamine.  
CC The present sequence is polyketide synthase multienzyme housing extension  
CC modules 9, 10, 11, 12, 13 and 14 encoded by S. nodosus amphi gene  
XX  
SQ Sequence 9510 AA;

Query Match 7.9%; Score 84; DB 6; Length 9510;  
Best Local Similarity 24.5%; Pred. No. 4e+02;  
Matches 53; Conservative 39; Mismatches 80; Indels 44; Gaps 10;

QY 3 KFLJIAAVAFVAVSADPIHYD-----KIT--BEINK-----AIDDAIAAEQSE 44  
Db 582 RFPFAAALDAALDAFTPHLDVPLRKVLWGEDADLDRTEYAQPALEFAVEVALRLLESF 641  
QY 45 TIDMKVPDHA--DKFERHVGIVDPKGEELAMRNTEARG-LQMKRQGDANVKGEIGVKA 101  
Db 642 EVKPDHLAGSVGEIAAAHVAGV-FSLDDAATLVAAGRLMCAALPEGGMVAVQASEDEV 700  
QY 102 HLLIGVHDIDIVSMEYDLYAYKLGDLHPHTTHVISDQDFVVALSLEISDEGNT----- 153  
Db 701 APFLAGHEDLVS-----LAAVNG--PSAVLSGDETTVTELAARLAADGRKTSRLRVSHA 753  
QY 154 ----WTSEVQRPANVNHIGLSILDPIFGVLSDV 185  
Db 754 FHSPLMAPMLDEFNRNVE---GLTLHSLPLPVSVDV 786  
  
RESULT 72  
AAG89772  
ID AAG89772 standard; protein; 412 AA.  
XX  
AC AAG89772;  
DT 26-SEP-2001 (first entry)  
XX  
XX C glutamicum protein fragment SEQ ID NO: 3526.  
DE  
XX Coryneform bacterium; amino acid synthesis; vitamin; saccharide;  
KW organic acid synthesis.  
XX  
XX Corynebacterium glutamicum.  
XX  
XX EP1108790-A2.  
XX  
XX 20-JUN-2001.  
XX  
XX 18-DEC-2000; 2000EP-00127688.  
XX  
XX 16-DEC-1999; 99JP-00377484.  
XX 07-APR-2000; 2000JP-00159162.  
XX 03-AUG-2000; 2000JP-00280988.  
XX  
XX (KYOW ) KYOWA HAKKO KOGYO KK.  
XX  
XX Nakagawa S, Mizoguchi H, Ando S, Hayashi M, Ochial K, Yokoi H;  
PI Tateishi N, Senoh A, Ikeda M, Ozaki A;  
XX  
XX WPI: 2001-376931/40.  
XX N-PSDB; AAH64991.  
XX  
XX Novel polynucleotides derived from Coryneform bacteria, for identifying  
PT mutation point of a gene, measuring expression of a gene, analyzing  
PT expression profile or pattern of a gene and identifying homologous gene.  
XX  
PS Claim 17; SEQ ID NO 3526; 246pp + Sequence Listing; English.  
XX  
XX The present invention provides a number of nucleotide and protein  
CC sequences from the Coryneform bacterium Corynebacterium glutamicum. These  
CC are useful for identifying the mutation point of a gene derived from a  
CC mutant of coryneform bacterium, measuring expression amount and analysing  
CC the expression profile or expression pattern of a gene derived from  
CC Coryneform bacterium, and identifying a homologue of a gene derived from  
CC Coryneform bacterium. Coryneform bacteria are useful for producing amino  
CC acids, nucleic acids, vitamins, saccharides and organic acids,  
CC particularly L-lysine. The present sequence is a protein described in the  
CC exemplification of the invention. Note: The sequence data for this patent  
CC did not form part of the printed specification, but was obtained in  
CC electronic format directly from the European Patent Office  
XX  
SQ Sequence 412 AA;

Query Match

7.8%; Score 83.5; DB 4; Length 412;

Best Local Similarity 31.5%; Pred. No. 5.3;  
Matches 34; Conservative 16; Mismatches 41; Indels 17; Gaps 6;  
QY 54 HADKFERHVGTVDFKGLAMENIARGLKQMKROGDANVGEIGVKAHLIGVHDDIVS 113  
Db 134 YAEAF-----IQPSGDSFVTLKSGDFKQALEQ-----QWEGSARPVAAVGSDN-VS 183  
QY 114 MEYDLAYKGLDHPHTTHVISDI-----QDFVALSLRISDEGNITMTS 156  
Db 184 YTYDINRPIGD-RVTSVTIDTDLDPDRDYVVAASLYL-QSGNEGMTA 229  
RESULT 73  
ADC30987  
ID ADC30987 standard; protein; 517 AA.  
XX  
AC ADC30987;  
XX  
DT 18-DEC-2003 (first entry)  
DE Human novel polypeptide sequence, SEQ ID NO:1069.  
XX  
KW Human; diagnostic; drug screening; forensics; gene mapping;  
KW biodiversity assessment; Parkinson's disease; Alzheimer's disease;  
KW neurodegenerative diseases; anaemia; platelet disorder; wound; burns;  
KW ulcers; osteoporosis; autoimmune disease; cancer;  
KW molecular weight marker; food supplement; antiparkinsonian; nootropic;  
KW neuroprotective; anti-anaemic; anticoagulant; thrombolytic; vulnerary;  
KW antitumor; osteopathic; immunosuppressive; antiinflammatory; cytostatic;  
KW gene therapy; chromosome 15q21.3.  
XX  
OS Homo sapiens.  
XX  
PN WO2003029271-A2.  
XX  
PD 10-APR-2003.  
XX  
PF 24-SEP-2002; 2002WO-US030474.  
XX  
PR 24-SEP-2001; 2001US-0324631P.  
XX  
PA (HYSE-) HYSEQ INC.  
XX  
PI Tang TY, Zhang J, Ren F, Xue AJ, Zhao QA, Wang J, Wehrman T;  
PI Zhou P, Ghosh M, Wang D, Ma Y, Asundi V, Wang Z, Weng G;  
PI Haley-Vicente D, Dermanac RT;  
XX  
XX WPI; 2003-371981/35.  
DR N-PSDB; ADC30016.  
XX  
XX New polynucleotide and polypeptide useful for diagnosing, preventing or  
PT treating conditions such as neurodegenerative diseases, anemias, platelet  
PT disorders, wounds, burns, ulcers, osteoporosis, autoimmune diseases or  
PT cancer.  
XX  
PS Claim 20; SEQ ID NO 1069; 1185pp; English.  
XX  
XX The invention relates to 971 novel human cDNA sequences (ADC29919-  
CC ADC30889) and the polypeptides they encode (ADC30890-ADC31860). The  
CC invention also relates to nucleic acid sequences over 99% identical with  
CC the novel human cDNAs. The invention additionally encompasses expression  
CC vectors and host cells comprising a nucleic acid of the invention; the  
CC recombinant production of a polypeptide of the invention; an antibody  
CC against a polypeptide of the invention; a method of detecting  
CC polynucleotides or polypeptides of the invention; and methods of  
CC identifying a compound which binds to a polypeptide of the invention. The  
CC invention further discloses methods of preventing, treating or  
CC ameliorating a medical condition; kits comprising polynucleotide probes  
CC and/or monoclonal antibodies for carrying out the methods of the  
CC invention; methods for the identification of compounds that modulate the  
CC expression or activity of the polynucleotide and/or polypeptide; and 767  
CC contig sequences corresponding to the cDNA sequences of the invention  
CC (ADC31861-ADC32627) and the polypeptides encoded by the contigs (ADC32628  
CC

CC -ADC33394). The nucleic acids and polypeptides of the invention are  
CC useful in diagnostics, drug screening, forensics, gene mapping, in the  
CC identification of mutations responsible for genetic disorders or other  
CC traits, for assessing biodiversity, and in producing many other types of  
CC data and products dependent on DNA and amino acid sequences. They are  
CC also used for treating diseases such as Parkinson's disease, Alzheimer's  
CC disease and other neurodegenerative diseases, anaemia, platelet  
CC disorders, wounds, ulcers, osteoporosis, autoimmune diseases or  
CC cancer. The nucleic acids may also be used as hybridisation probes or  
CC primers, and in the recombinant production of a protein. The polypeptides  
CC are also useful in generating antibodies, as molecular weight markers,  
CC and as food supplements. The present sequence represents a specifically  
CC claimed human polypeptide sequence of the invention. Note: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 517 AA;  
Query Match 7.8%; Score 83.5; DB 7; Length 517;  
Best Local Similarity 21.7%; Pred. No. 7.3;  
Matches 31; Conservative 29; Mismatches 66; Indels 17; Gaps 4;  
QY 21 HYDKITEINKAIDDAIAIFQSETIDPMKVPDHDKFERHVGIVDFKGLAMENIAR- 79  
Db 160 HLGKTIKIKQEMADIVEASRTSTLEQLQDVEYKURRE--LAEMQQLKENTLEAK 217  
QY 80 -GLKQVKQGDANVGE-----EGIVKAHLIGVHDDIVSMEYDLAYKGLDHLPT 128  
Db 218 SLRTAKQDEMRLEMEELRDYQRAQDEALTQRL---EQLKDLLEYEAKSHLKDOR 274  
QY 129 THVISDIDQFVVALSLRISDEGN 151  
Db 275 SRLVKQMEDKVSQLEMELEERN 297  
RESULT 74  
ABU50581  
ID ABU50581 standard; protein; 548 AA.  
XX  
AC ABU50581;  
XX  
DT 19-JUN-2003 (first entry)  
DE Protein encoded by Prokaryotic essential gene #36108.  
XX  
KW Antisense; prokaryotic essential gene; cell proliferation; drug design.  
XX  
OS Yersinia pestis.  
XX  
PN WO200277183-A2.  
PD 03-OCT-2002.  
XX  
PF 21-MAR-2002; 2002WO-US009107.  
XX  
PR 21-MAR-2001; 2001US-00815242.  
PR 06-SEP-2001; 2001US-00948993.  
PR 25-OCT-2001; 2001US-0342923P.  
PR 08-FEB-2002; 2002US-00072851.  
PR 06-MAR-2002; 2002US-0362699P.  
XX  
PA (ELIT-) ELITRA PHARM INC.  
XX  
PI Wang L, Zamudio C, Malone C, Haselbeck R, Ohlsen KL, Zyskind JW;  
PI Wall D, Trawick JD, Carr GJ, Yamamoto R, Forsyth RA, Xu HH;  
XX  
XX WPI; 2003-029926/02.  
DR N-PSDB; ACA54451.  
XX  
XX New antisense nucleic acids, useful for identifying proteins or screening  
PT for homologous nucleic acids required for cellular proliferation to  
PT isolate candidate molecules for rational drug discovery programs.



XX PS Claim 25; SEQ ID NO 78505; 1766pp; English.

XX CC The invention relates to an isolated nucleic acid comprising any one of

XX CC the 6213 antisense sequences given in the specification where expression

XX CC of the nucleic acid inhibits proliferation of a cell. Also included are:

XX CC (1) a vector comprising a promoter operably linked to the nucleic acid

XX CC encoding a polypeptide whose expression is inhibited by the antisense

XX CC nucleic acid; (2) a host cell containing the vector; (3) an isolated

XX CC polypeptide or its fragment whose expression is inhibited by the

XX CC antisense nucleic acid; (4) an antibody capable of specifically binding

XX CC the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular

XX CC proliferation or the activity of a gene in an operon required for

XX CC proliferation; (7) identifying a compound that influences the activity of

XX CC the gene product or that has an activity against a biological pathway;

XX CC (8) required for proliferation, or that inhibits cellular proliferation; (9)

XX CC identifying a gene required for cellular proliferation or the biological

XX CC pathway in which a proliferation-required gene or its gene product lies

XX CC or a gene on which the test compound that inhibits proliferation of an

XX CC organism acts; (9) manufacturing an antibiotic; (10) profiling a

XX CC compound's activity; (11) a culture comprising strains in which the gene

XX CC product is overexpressed or underexpressed; (12) determining the extent

XX CC to which each of the strains is present in a culture or collection of

XX CC strains; or (13) identifying the target of a compound that inhibits the

XX CC proliferation of an organism. The antisense nucleic acids are useful for

XX CC identifying proteins or screening for homologous nucleic acids required

XX CC for cellular proliferation to isolate candidate molecules for rational

XX CC drug discovery programs, or for screening homologous nucleic acids

XX CC required for proliferation in cells other than *S. aureus*, *S. typhimurium*,

XX CC *K. pneumoniae* or *P. aeruginosa*. The present sequence is encoded by one of

XX CC the target prokaryotic essential genes. Note: The sequence data for this

XX CC patent did not form part of the printed specification, but was obtained

XX CC in electronic format directly from WIPO at

XX CC ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 548 AA;

Query Match 7.8%; Score 83.5; DB 6; Length 548;

Best Local Similarity 18.1%; Pred. No. 7.9;

Matches 43; Conservative 45; Mismatches 80; Indels 69; Gaps 9;

QY 13 VAYSADPHYDKITTEINKAIDDA-TAAIEQSETIDPMKVPDHPADKFERHVGIVDFKGBL 71

DB 107 VAAGNMFM-----DLKRGIDKRAVIAVBE---LKKLSVPCSDSKAIAQVGTISANDS 156

QY 72 AMENIARGLKQMKRQDQANVKEEGIVKHAHLIGVHDD---IVSMEYDLAY----- 120

DB 157 TVGELIAQAMEKV-----GKEGVITVEEGSLQDELVDVVEGQDFRGVLSPIYFINK 207

QY 121 -----KLGDLPHTTHVISDIQDFVALSLSISDEGNTITMTSPFV 159

DB 208 PETGSIELESPFILLADKKTSINREMLPVLEAVAKAGKPLIIAEDVEGALATL----- 262

QY 160 RQFANVNHIGGL-----SILDPTEFGLVSDVLTAFQDTRKMTKVLAPAKRELEK 212

DB 263 -----VNTMRGIVKVAAPKPGFG---DRRKAMLDQIATLTAGTVISEIGLELEK 311

RESULT 75

ADL5622

XX AC ADL5622 standard; protein; 798 AA.

XX AC ADL5622;

XX DT 29-JAN-2004 (first entry)

XX DE Human structural and cytoskeleton-associated protein (SCAP) #1.

XX KW human; structural and cytoskeleton-associated protein; SCAP;

XX KW arteriosclerosis; atherosclerosis; cirrhosis; hepatitis; myelofibrosis;

XX KW psoriasis; cancer; pneumonia; chronic bronchitis; yellow fever;

XX KW influenza; measles; mumps; HIV; human T lymphotropic virus; rabies;

XX KW gastroenteritis; encephalitis; rubella; epilepsy;

KW ischaemic cerebrovascular disease; stroke; cerebral neoplasm;

KW Alzheimer's disease; Pick's disease; Huntington's disease; dementia;

KW Parkinson's disease; amyotrophic lateral sclerosis; atrophy;

KW hereditary ataxia; multiple sclerosis; meningitis; brain abscess;

KW prion disease; Creutzfeldt-Jakob disease; insomnia; neurofibromatosis;

KW cerebral palsy; myasthenia gravis; anxiety.

OS Homo sapiens.

PN WO2003062391-A2.

XX 31-JUL-2003.

XX 16-JAN-2003; 2003WO-US001772.

XX 18-JAN-2002; 2002US-0350702P.

XX 25-JAN-2002; 2002US-0351715P.

PR 15-FEB-2002; 2002US-0357402P.

PR 10-MAY-2002; 2002US-0379880P.

PR 17-MAY-2002; 2002US-0381599P.

PR 07-JUN-2002; 2002US-0387270P.

PR 19-JUL-2002; 2002US-0397125P.

PA (INCY-) INCYTE GENOMICS INC.

XX Yue H, Griffin JA, Richardson TW, Tang YT, Thangavelu K;

PI Forsythe JD, Becha SD, Chawla NK, Hafalia AJA, Swarnakar A;

PI Marvizu JP, Gorvad AE, Baughn MR, Lu DAW, Arvizu CS, Kable AE;

PI Lee SY, Ramkumar J, Jiang X, Jackson AA, Khare R, Elliott VS;

PI Bulloch SA, Xu Y, Lee S, Lehr-Mason PM;

XX WPI: 2003-671468/63.

DR N-P5DB; ADEL5653.

XX New isolated polypeptides useful for treating e.g. cell proliferative

PT disorders, viral infections and neurological disorders.

XX Claim 1; SEQ ID NO 1; 357pp; English.

PS The invention comprises the amino acid and coding sequences of human

CC structural and cytoskeleton-associated proteins (SCAP). The SCAP DNA and

CC protein sequences of the invention are useful for the diagnosis and

CC treatment of: arteriosclerosis, atherosclerosis, cirrhosis, hepatitis,

CC myelofibrosis, psoriasis, primary cancer, pneumonia, chronic bronchitis,

CC yellow fever, influenza, measles, mumps, HIV, human T lymphotropic virus,

CC rabies, gastroenteritis, encephalitis, rubella, epilepsy, ischaemic

CC cerebrovascular disease, stroke, cerebral neoplasm, Alzheimer's disease,

CC Pick's disease, Huntington's disease, dementia, hereditary ataxias, multiple

CC amyotrophic lateral sclerosis, atrophy, hereditary ataxias, multiple

CC sclerosis, meningitis, brain abscess, prion disease, Creutzfeldt-Jakob

CC disease, insomnia, neurofibromatosis, cerebral palsy, myasthenia gravis,

CC anxiety. The present amino acid sequence represents a human SCAP of the

CC invention.

XX SQ Sequence 798 AA;

Query Match 7.8%; Score 83.5; DB 7; Length 798;

Best Local Similarity 21.7%; Pred. No. 13;

Matches 31; Conservative 29; Mismatches 66; Indels 17; Gaps 4;

QY 21 HYDKITEINKAIDDAIAIEQSETIDPMKVPDHPADKFERHVGIVDFKGELEAMENIAR- 79

DB 441 HLGKTIIEKLQEMADIVEASTSTLELQNLQDEYKKNRRE--LAEMQRLKEKTELEAK 498

QY 80 -GLKQKTEQGDANVKGE-----EGIVKHAHLIGVHDDIVSMEYDLAYKLGDLHPT 128

DB 499 SELTAKMKQDEWRLMEELRDYQRAQDEALTKRQL---EQLKDLVELEAKSHLKDDR 555

QY 129 THVISDIODFVALSLSISDEGN 151

DB 556 SRLVKQMEDKVSQLEMELEERN 578



QY 145 EISDEGNITMTSFVRQFANVNHIGLSILDPIFGVLSDLVLTAFQDITVRKEMTKVLAP 204  
 ID AAB71315  
 DB 101 -IDSPGHVDFSS-EVTAALRVT--GALVVDCVGVGVQVETVL-----RQALTERIRP 151

RESULT 78  
 AAB71315  
 ID AAB71315 standard; protein; 845 AA.  
 XX  
 AC AAB71315;  
 XX  
 DT 18-NOV-2002 (first entry)  
 XX  
 DE L. major 4G2-83 extended antigen SEQ ID 110.  
 XX  
 KW Antigen; immunogenic; antiparasitic; immunostimulant; leishmaniasis;  
 KW gene therapy; vaccine; interleukin-12 agonist.  
 XX  
 OS Leishmania major.  
 XX  
 FN US2002081320-A1.  
 XX  
 PD 27-JUN-2002.  
 XX  
 EF 04-JUN-2001; 2001US-00874923.  
 XX  
 PR 22-SEP-1995; 95US-00533669.  
 PR 12-FEB-1997; 97US-00798841.  
 PR 27-AUG-1997; 97US-00920609.  
 PR 12-FEB-1998; 98US-00022765.  
 PR 30-OCT-1998; 98US-00183861.  
 PR 14-APR-2000; 2000US-00551974.  
 PR 05-MAY-2000; 2000US-00565501.  
 PR 14-AUG-2000; 2000US-00639206.  
 XX  
 PA (REED/) REED S G.  
 PA (CAMP/) CAMPOS-NETO A.  
 PA (WEBB/) WEBB J R.  
 PA (DILL/) DILLON D C.  
 PA (BHAT/) BHATIA A.  
 PA (COLE/) COLER R N.  
 PA (PROB/) PROBST P.  
 PA (BRAN/) BRANNON M.  
 XX  
 FI Reed SG, Campos-Neto A, Webb JR, Dillon DC, Skeiky YAW, Bhatia A;  
 PI Coler RN, Probst P, Brannon M;  
 XX  
 DR WPI; 2002-635457/68.  
 DR N-PSDB; AAF88573.  
 XX  
 PT New polypeptide containing at least an immunogenic portion of one or more  
 PT Leishmania antigens or their variants, useful for preventing, treating  
 PT and detecting leishmaniasis, and stimulating immune responses in  
 PT patients.  
 XX  
 PS Claim 1; Page 108-110; 163pp; English.  
 XX  
 CC This invention describes a novel polypeptide containing an immunogenic  
 CC portion of a Leishmania antigen or its variant which has antiparasitic  
 CC and immunostimulant activity. The compositions and methods of the present  
 CC invention are useful for preventing, treating and detecting  
 CC leishmaniasis, and stimulating immune responses in patients against  
 CC leishmaniasis. The polypeptides and the polynucleotides encoding them can  
 CC be used for gene therapy, in vaccines or as interleukin-12 agonists. The  
 CC compositions and methods of the present invention, as compared to prior  
 CC art, are more improved therapeutic modalities in the diagnosis,  
 CC prevention and treatment of leishmaniasis  
 XX  
 SQ Sequence 845 AA;

Query Match 7.8%; Score 83; DB 5; Length 845;  
 Best Local Similarity 23.3%; Pred. No. 17;

Matches 42; Conservative 34; Mismatches 70; Indels 34; Gaps 10;  
 QY 29 INKAIDDAIAIEQSETIDPMKVPDPHADKFERHVGIVDFKGLAMRNTEARGLKQMKRQ 88  
 DB 2 VNFTVDQVRELMDYDPQIRNMSVIAHVD-----HGKSTLSDSLVAAGAIKMEBAG 52  
 QY 89 DANV--KGEEGIVKAHLLIGVHDDIVSMEDYLAKE-LGDLHPHTTHVISDIQDFVVALSL 144  
 DB 53 DKRINDTRADE-IARG---IYIKSTAIASHVHVHPKEMIGDLD-----DDKRDFFLINL-- 100  
 QY 145 EISDEGNITMTSFVRQFANVNHIGLSILDPIFGVLSDLVLTAFQDITVRKEMTKVLAP 204  
 DB 101 -IDSPGHVDFSS-EVTAALRVT--GALVVDCVGVGVQVETVL-----RQALTERIRP 151

RESULT 79  
 ADB78873  
 ID ADB78873 standard; protein; 845 AA.  
 XX  
 AC ADB78873;  
 XX  
 DT 04-DEC-2003 (first entry)  
 XX  
 DE Leishmania T cell antigen 4G2-83 extended protein.  
 XX  
 KW Antigen; protozoacide; antibacterial; virucide; cytostatic;  
 KW immunostimulant; leishmaniasis; Leishmania infection; immune response;  
 KW interleukin-2 stimulation; cancer; bacterial infection; viral infection;  
 XX protozoan infection.  
 OS Leishmania major.  
 XX  
 PN US2002169285-A1.  
 XX  
 PD 14-NOV-2002.  
 XX  
 PF 20-NOV-2001; 2001US-00991496.  
 XX  
 PR 22-SEP-1995; 95US-00533669.  
 PR 12-FEB-1997; 97US-00798841.  
 PR 27-AUG-1997; 97US-00920609.  
 PR 12-FEB-1998; 98US-00022765.  
 PR 30-OCT-1998; 98US-00183861.  
 PR 14-APR-2000; 2000US-00551974.  
 PR 05-MAY-2000; 2000US-00565501.  
 PR 14-AUG-2000; 2000US-00639206.  
 PR 04-JUN-2001; 2001US-00874923.  
 XX  
 PA (REED/) REED S G.  
 PA (CAMP/) CAMPOS-NETO A.  
 PA (WEBB/) WEBB J R.  
 PA (DILL/) DILLON D C.  
 XX  
 PI Reed SG, Campos-Neto A, Webb JR, Dillon DC;  
 XX  
 DR WPI; 2003-605673/57.  
 DR N-PSDB; ADB78872.  
 XX  
 PT Novel isolated polypeptide useful for preventing or treating  
 PT leishmaniasis, comprises an immunogenic portion of a Leishmania antigen  
 PT or its variant.  
 XX  
 PS Claim 1; Page 110-112; 183pp; English.  
 XX  
 CC The invention relates to an isolated polypeptide comprising an  
 CC immunogenic portion of a Leishmania antigen or its. Also included are  
 CC antigenic epitopes, fusion proteins comprising an isolated polypeptide  
 CC fusion protein comprising at least two contiguous antigenic epitopes,  
 CC polynucleotides encoding the antigens or fusion proteins, a recombinant  
 CC expression vector comprising the polynucleotide, a host cell transformed  
 CC with the vector and a composition (pharmaceutical or immunogenic)  
 CC comprising the antigen or fusion protein and a physiologically acceptable  
 CC carrier. The compositions are useful for inducing protective immunity



SQ Sequence 548 AA;

Query Match 7.7%; Score 82.5; DB 2; Length 548;  
Best Local Similarity 18.7%; Pred. No. 10;  
Matches 49; Conservative 43; Mismatches 83; Indels 87; Gaps 10;

QY 10 VAFVAVSADPHYDKITEINKAIDDAIAEQSETIDPMKDPHADKFERHVGIVDFK 69  
DB 104 KLVAAAGNPM-----AIKRGIDKAVAV--TKELSDITKPTRDQKEIAQVGTISANS 154

QY 70 ELARNIEARGLKQMKRQGDANVKGEGIVKAHLIGVHDDIVSMYDAY----- 120  
DB 155 DTIGNIIAAMAKVGGVITVEERAG-----LETTLDVWGMKFDGGLSPYFVTNP 208

QY 121 -----KLGLDPTTHVSDIQDFVVALSLETSDEGNTIMTSFEVR 160  
DB 209 EKWCCELDNPIYLCNEKITSMDMFLLEQVAKVRPLIIAEDVEGEALATL----- 262

QY 161 QFANVNHIGG-----LSILDPIFG-----VLSD--VLT---AIFQD----- 192  
DB 263 -----VVKLRGALQVAVKAPGFGERRKAMLEDIAITGGEAIFEDRGINKLENVSLSLG 318

QY 193 -----TVRKEMTKVLAPAKRE 209  
DB 319 TAKRVVIDKENTIVDGAQKSE 340

RESULT 82  
ABU11518

ID ABU11518 standard; protein; 953 AA.

AC ABU11518;

XX

DT 12-FEB-2003 (first entry)

XX

DE Human MDDT polypeptide SEQ ID 465.

XX

KW MDDT; human; disease detection and treatment molecule polypeptide;  
KW anti-inflammatory; immunosuppressive; osteopathic; anti-HIV;  
KW haemostatic; nephrotropic; antianaemic; antipsoriatic; hepatotropic;  
KW gene therapy; protein replacement therapy; cell proliferative disorder;  
KW cancer; adenocarcinoma; leukaemia; lymphoma; melanoma; sarcoma;  
KW anaemia; Crohn's disease; acquired immunodeficiency syndrome; AIDS;  
KW Goodpasture's syndrome; inflammation; osteoporosis; thrombocytopaenia;  
KW psoriasis; hepatitis.

XX

OS Homo sapiens.

XX

PN WO200279449-A2.

XX

PD 10-OCT-2002.

XX

PF 27-MAR-2002; 2002WO-US0009944.

XX

PR 28-MAR-2001; 2001US-0279619P.

PR 29-MAR-2001; 2001US-0280067P.

PR 29-MAR-2001; 2001US-0280068P.

PR 16-MAY-2001; 2001US-0291280P.

PR 17-MAY-2001; 2001US-0291828P.

PR 17-MAY-2001; 2001US-0291849P.

PR 19-JUN-2001; 2001US-0299428P.

PR 20-JUN-2001; 2001US-0299776P.

PR 20-JUN-2001; 2001US-0300001P.

XX

PA (INCYTE) INCYTE GENOMICS INC.

XX

PI Daffo A, Jones AL, Tran AB, Dahl CR, Gietzen D, Chinn J;  
PI Dafour GE, Hillman JL, Yu JY, Tuason O, Yap PE, Anshey SR;  
PI Daugherty SC, Dam TC, Liu TF, Nguyen DA, Kleefeld Y, Gerstin EH;  
PI Peralta CH, David MH, Lewis SA, Chen AJ, Panzer SR, Harris B;  
PI Flores V, Marwaha R, Lo A, Lan RV, Urashka ME;  
XX

DR WPI; 2003-058431/05.

DR

DR N-PSDB; ABX34508.

XX

PT New purified disease detection and treatment molecule proteins and  
PT polynucleotides, useful for diagnosing, treating or preventing cancers  
PT (e.g. leukemia or sarcoma), anaemia, Crohn's disease, AIDS, osteoporosis  
or hepatitis.

XX

PS Claim 27; SEQ ID NO 465; 339pp + Sequence Listing; English.

XX

CC This invention describes a novel disease detection and treatment molecule  
CC polypeptide (MDDT) which has anti-inflammatory, immunosuppressive,  
CC osteopathic, cytostatic, anti-HIV, haemostatic, nephrotropic,  
CC antianaemic, antipsoriatic and hepatotropic activity. The polynucleotides  
CC and the polypeptides of the invention can be used for gene therapy,  
CC protein replacement therapy and are useful for treating a variety of  
CC diseases or conditions. These polypeptides or polynucleotides are  
CC particularly useful for diagnosing, treating or preventing cell  
CC proliferative disorders (e.g. cancers including adenocarcinoma,  
CC leukaemia, lymphoma, melanoma, myeloma or sarcoma), anaemia, Crohn's  
CC disease, acquired immunodeficiency syndrome (AIDS), Goodpasture's  
CC syndromes, inflammation, osteoporosis, thrombocytopaenia, psoriasis or  
CC hepatitis. ABU11450-ABU11845 represent the MDDT polynucleotides encoded  
CC by ABU11450-ABU11845, described in the disclosure of the invention. NOTE:  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX

SQ Sequence 953 AA;

Query Match 7.7%; Score 82.5; DB 6; Length 953;  
Best Local Similarity 24.2%; Pred. No. 22;  
Matches 39; Conservative 32; Mismatches 49; Indels 41; Gaps 7;

QY 45 TIDPMKVPDHADKFERHVGIVDFKGE-----AMENIEFARGLKQMKRQ----- 88  
DB 705 TINPLCIEMYADK-ESRGVLEPGEVTEIKFKKDLIKSMERIDPAYKKLEQLGEPDLS 763

QY 89 DANVKGEGIVKAHLIGVHDDIVSMYDAYKGLDHP-----THVSDIQDFVVAL 142  
DB 764 DKRDXLEGRUKAR-----EDLLPIYHQAQVAFADHDTGRLMKLGKVISDILEWKTAR 818

QY 143 S-----LEISDEGNTIMTSFEVRQFANVNHIGLSIL 175  
DB 819 TFLYWRRLRLLEDQ-----VKQELQASGELSHVHIQSM 854

RESULT 83  
ABP59211

ID ABP59211 standard; protein; 2458 AA.

XX

AC ABP59211;

XX

DT 10-MAY-2003 (first entry)

XX

DE Human drug metabolising enzyme, DME-2, SEQ ID 2.

XX

KW Human; drug metabolising enzyme; anti-HIV; antiallergic;  
KW anti-inflammatory; antianaemic; thrombolytic; antilipemic; antidiarrheic;  
KW antiarteriosclerotic; antiasthmatic; immunosuppressive; antithyroid;  
KW cytostatic; hepatotropic; virucide; dermatological; antidiabetic;  
KW nephrotropic; antipsoatic; uropathic; thyromimetic; osteopathic;  
KW antiarthritic; antipsoriatic; uropathic; ophthalmological; antirheumatic;  
KW haemostatic; gene therapy; cell proliferative disorder; cancer;  
KW developmental disorder; endocrine disorder; eye disorder;  
KW metabolic disorder; gastrointestinal disorder; liver disorder;  
KW autoimmune disorder; inflammatory disorder; DME-2.

XX

OS Homo sapiens.

XX

PN WO2003004608-A2.

XX

PD 16-JAN-2003.

XX

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PF 05-JUL-2002; 2002WO-US021105.
XX
XX
XX 06-JUL-2001; 2001US-0303745P.
PR 13-JUL-2001; 2001US-0305402P.
PR 17-JUL-2001; 2001US-0308158P.
PR 14-SEP-2001; 2001US-0322127P.
XX
XX (INCY-) INCYTE GENOMICS INC.
XX
XX Griffin JA, Ramkumar J, Emerling BM, Richardson TW, Li JX;
PI Warren BA, Honchell CD, Baughn MR, Tang YT, Lee EA, Elliott VS;
PI Yue H, Lee S, Swarnakar A, Forsythe IJ, Sanjanwala MM, Yao MG;
PI Zebardjian Y, Gorvad AE, Becha SD, Burford N;
XX
XX WPI; 2003-221588/21.
DR N-PSDB; ABZ81302.
XX
XX New drug metabolizing enzymes (DME) useful for diagnosing, treating or
PT preventing diseases or conditions associated with aberrant DME
PT expression, e.g. cancer, AIDS, atherosclerosis, diabetes, glaucoma,
PT hepatitis or osteoporosis.
XX
XX Claim 1; Page 149-155; 181pp; English.
XX
XX The present invention relates to novel human drug metabolising enzymes,
CC DME-1 to DME-13 (ABP59210-ABP59222) and their coding sequences (ABZ81301-
CC ABZ81313). The sequences are useful for diagnosing, treating or
CC preventing disorders associated with aberrant expression of DME,
CC particularly cell proliferative disorders (e.g. arteriosclerosis,
CC atherosclerosis, cirrhosis, paroxysmal nocturnal haemoglobinuria,
CC polycythaemia vera, psoriasis, primary thrombocytopenia or cancer),
CC developmental disorders (e.g. renal tubular acidosis, anaemia or mental
CC retardation), endocrine (e.g. osteoporosis, thrombosis, diabetes), eye
CC disorders (e.g. glaucoma, keratitis), metabolic (e.g. hyperlipidaemia,
CC cystic fibrosis), gastrointestinal disorders (e.g. gastroenteritis,
CC diarrhoea), liver disorders (e.g. hepatitis, Reye's syndrome), or
CC autoimmune/inflammatory disorders (e.g. AIDS, allergies, asthma,
CC autoimmune thyroiditis, contact dermatitis, Crohn's disease,
CC glomerulonephritis, Goodpasture's syndrome, gout, Graves' disease,
CC Hashimoto's thyroiditis, irritable bowel syndrome, multiple sclerosis,
CC osteoarthritis, pancreatitis, Reiter's syndrome, rheumatoid arthritis,
CC Sjogren's syndrome, uveitis). They are also useful in the assessing the
CC effects of exogenous compounds on the expression of nucleic acid and
CC amino acid sequences of DME. The polynucleotides encoding DME are useful
CC for creating transgenic animals to model human disease
XX
XX Sequence 2458 AA;
Query Match 7.7%; Score 82.5; DB 6; Length 2458;
Best Local Similarity 24.2%; Pred. No. 85;
Matches 39; Conservative 32; Mismatches 49; Indels 41; Gaps 7;
QY 45 TIDPMKVPDHADKFRHVGIVDFKQEL-----AMNIEARGLKQMKRQG----- 88
DB 2210 TINPLCIEMYADK-ESRGVLEPGTVEIKFRKDLIKSMRIRIDPAYKLMQELGEPDLS 2268
QY 89 DANVKGEGIVKAHLIGVHDDIVSMYDLAYKGLDLHPT-----THVISDIQDFVVAL 142
DB 2269 DKDRKDLGRUKAR-----EDLLLPYHQVAVQFADFDTPGRMLEKGVISDILEWKTAR 2323
QY 143 S-----LISDEGNTMTSFEVRQFANVNVHIGLSIL 175
DB 2324 TFLYWRRLRLLEDQ-----VKQEILQASGELSHVHIQSM 2359
RESULT 84
AAU32848
ID AAU32848 standard; protein; 2486 AA.
XX
XX AAU32848;
XX
XX 18-DEC-2001 (first entry)
XX
Novel human secreted protein #3339.
DE
XX
XX Human; vaccination; gene therapy; nutritional supplement;
KW stem cell proliferation; haematopoiesis; nerve tissue regeneration;
KW immune suppression; immune stimulation; anti-inflammatory; leukaemia.
XX
XX Homo sapiens.
XX
XX WO200179449-A2.
XX
XX 25-OCT-2001.
XX
XX 16-APR-2001; 2001WO-US008656.
XX
XX 18-APR-2000; 2000US-00552929.
PR 26-JAN-2001; 2001US-00770160.
XX
XX (HYSE-) HYSEQ INC.
XX
XX Tang YT, Liu C, Drmanac RT;
XX
XX WPI; 2001-611725/70.
XX
XX Nucleic acids encoding a range of human polypeptides, useful in genetic
PT vaccination, testing and therapy.
XX
XX Claim 20; Page 678; 765pp; English.
XX
XX The invention relates to novel human secreted polypeptides. The
CC polypeptides and antibodies to the polypeptides are useful for
CC determining the presence of or predisposition to a disease associated
CC with altered levels of polypeptide. The polypeptides are also useful for
CC identifying agents (agonists and antagonists) that bind to them. Cells
CC expressing the proteins are useful for identifying a therapeutic agent
CC for use in treatment of a pathology related to aberrant expression or
CC physiological interactions of the polypeptide. Vectors comprising the
CC nucleic acids encoding the polypeptides and cells genetically engineered
CC to express them are also useful for producing the proteins. The proteins
CC are useful in genetic vaccination, testing and therapy, and can be used
CC as nutritional supplements. They may be used to increase stem cell
CC proliferation; to regulate haematopoiesis; and in bone, cartilage, tendon
CC and/or nerve tissue growth or regeneration; immune suppression and/or
CC stimulation; as anti-inflammatory agents; and in treatment of leukaemias.
CC AAU29510-AAU33304 represent the amino acid sequences of novel human
CC secreted proteins of the invention
XX
XX Sequence 2486 AA;
Query Match 7.7%; Score 82.5; DB 4; Length 2486;
Best Local Similarity 24.2%; Pred. No. 87;
Matches 39; Conservative 32; Mismatches 49; Indels 41; Gaps 7;
QY 45 TIDPMKVPDHADKFRHVGIVDFKQEL-----AMNIEARGLKQMKRQG----- 88
DB 2238 TINPLCIEMYADK-ESRGVLEPGTVEIKFRKDLIKSMRIRIDPAYKLMQELGEPDLS 2296
QY 89 DANVKGEGIVKAHLIGVHDDIVSMYDLAYKGLDLHPT-----THVISDIQDFVVAL 142
DB 2297 DKDRKDLGRUKAR-----EDLLLPYHQVAVQFADFDTPGRMLEKGVISDILEWKTAR 2351
QY 143 S-----LISDEGNTMTSFEVRQFANVNVHIGLSIL 175
DB 2352 TFLYWRRLRLLEDQ-----VKQEILQASGELSHVHIQSM 2387
RESULT 85
ABZ84649
ID ABZ84649 standard; protein; 2487 AA.
XX
XX ABZ84649;
XX
XX 11-FEB-2003 (first entry)
XX
```

DE Human SSCP-1 protein from clone 7757335CD1 SEQ ID 1.

XX Secreted protein; SSCP; human; antiarteriosclerotic; antiatherosclerotic;  
 KW hepatotropic; cytostatic; anti-HIV; anti-allergic; antiasthmatic; cancer;  
 KW antianaemic; antidiabetic; antiinflammatory; neuroprotective; antiulcer;  
 KW antihemematic; antiarthritic; cardiac; hypotensive; gonadal dysgenesis;  
 KW vasotropic; anticonvulsant; nootropic; immunosuppressive; pericarditis;  
 KW antiparkinsonian; ophthalmological; cell proliferative disorder;  
 KW arteriosclerosis; atherosclerosis; cirrhosis; hepatitis; angina pectoris;  
 KW autoimmune disorder; AIDS; Crohn's disease; multiple sclerosis; epilepsy;  
 KW ulcerative colitis; cardiovascular disorder; myocardial infarction;  
 KW Raynaud's disease; myocarditis; neurological disorder; cataract;  
 KW Huntington's disease; Alzheimer's disease; Creutzfeldt-Jakob disease;  
 KW developmental disorder; Duchenne muscular dystrophy; antipsoriatic;  
 KW Becker muscular dystrophy; Cushing's syndrome.

XX Homo sapiens.

XX WO200279441-A2.

XX 10-OCT-2002.

XX 29-MAR-2002; 2002WO-US009820.

XX 30-MAR-2001; 2001US-0280527P.

XX 06-APR-2001; 2001US-0282112P.

XX 09-APR-2001; 2001US-0282702P.

XX 13-APR-2001; 2001US-0283855P.

XX 19-OCT-2001; 2001US-0343718P.

XX 07-DEC-2001; 2001US-0339236P.

XX 13-FEB-2002; 2002US-0357002P.

XX (INCY-) INCYTE GENOMICS INC.

XX Baughn MR, Burford N, Ding L, Duggan BM, Elliott VS, Forsythe LJ;  
 PI Gandhi AK, Gietzen KU, Griffin JA, He A, Honchell CD, Ison CH;  
 PI Lal PG, Lee EA, Lee S, Lu DAM, Mason PM, Sanjanwala MM;  
 PI Swarrakar A, Ramkumar J, Tang YT, Thangavelu K, Tran UK, Walia NK;  
 PI Warren BA, Yao MG, Xu Y, Yue H;

XX WPI; 2003-058429/05.

DR N-PSDB; ABS57545.

XX Novel human secreted protein useful for treating, preventing or  
 PT diagnosing cancer, hepatitis, psoriasis, asthma, diabetes mellitus,  
 PT anemia, epilepsy, cataract, Alzheimer's disease.

XX Claim 56; Page 143-149; 188pp; English.

XX This invention describes novel secreted proteins (SECP) which have  
 CC antiarteriosclerotic, antiatherosclerotic, hepatotropic, cytostatic, anti  
 CC -HIV, anti-allergic, antiasthmatic, antianaemic, antidiabetic,  
 CC antiinflammatory, neuroprotective, antiulcer, antipsoriatic, vasotropic,  
 CC antihemematic, antiarthritic, cardiac, hypotensive, anticonvulsant,  
 CC nootropic, immunosuppressive, antiparkinsonian and ophthalmological,  
 CC activity. The polynucleotides and polypeptides of the invention can be  
 CC used for diagnosing, treating or preventing cell proliferative disorder  
 CC e.g. arteriosclerosis, atherosclerosis, cirrhosis, hepatitis, cancer,  
 CC autoimmune/inflammatory disorders e.g. acquired immunodeficiency syndrome  
 CC (AIDS), allergies, asthma, anaemia, diabetes mellitus, Crohn's disease,  
 CC multiple sclerosis, ulcerative colitis, psoriasis, rheumatoid arthritis,  
 CC etc; cardiovascular disorder e.g. myocardial infarction, angina pectoris,  
 CC hypertension, Raynaud's disease, myocarditis, pericarditis, etc;  
 CC neurological disorders e.g. epilepsy, Huntington's disease, Parkinson's  
 CC disease, Alzheimer's disease, Creutzfeldt-Jakob disease, etc; and  
 CC developmental disorders e.g. Duchenne and Becker muscular dystrophy,  
 CC cataract, gonadal dysgenesis, Cushing's syndrome, etc. The products of  
 CC the invention can also be used for drug screening, proteome analysis,  
 CC microarrays creating knock-in humanised animals or transgenic animals to  
 CC model human diseases, in somatic or germline gene therapy, to generate a  
 CC transcript image of a tissue or cell type, for detecting differences in  
 CC the chromosomal location due to translocation, inversion, etc., among  
 CC normal, carrier or affected individuals, and as hybridization probes for

CC mapping naturally occurring genomic sequences.. ABB84649-ABB84673  
 CC represent secreted proteins encoded by the cDNA's shown in ABS57545-  
 CC ABS57569, described in the disclosure of the invention

XX Sequence 2487 AA;

Query Match 7.7%; Score 82.5; DB 6; Length 2487;

Best Local Similarity 24.2%; Pred.No.87;

Matches 39; Conservative 32; Mismatches 49; Indels 41; Gaps 7;

QY 45 TIDPMKVPDHDKFERHVGIVDFKGL-----AMNTEARGLKQMKRG----- 88

Db 2239 TINFELCIEMVADK-ESRGVLEPGTVEIKFRKKDLIKSMRIDPAYKLMELQGEPLDS 2297

QY 89 DANVKGEGIVKAHLIGVDDIVSMYDLYAKLGLDHLPT-----THVISDLODFVVAL 142

Db 2298 DKDRKDLGRLKAR-----EDLLPIYHQAQVADPHDTPGRMLEKGVISDILEWTKAR 2352

QY 143 S-----LEISDEGNITMTSFVRQFANVNVHIGLSIL 175

Db 2353 TFLYWRLLRLLEDO-----VKQILQASGELSHVHIQSM 2388

RESULT 86

ABU65149

ID ABU65149 standard; protein; 2498 AA.

XX AC ABU65149;

XX DT 20-MAY-2003 (first entry)

XX DE Human NOV76a protein.

XX KW NOVX; cytostatic; cardiant; antiarteriosclerotic; antiasthmatic; cancer;

XX KW hypotensive; cardiomyopathy; bronchial asthma; gene therapy; vaccine;

XX OS Homo sapiens.

XX PN WO200272757-A2.

XX PD 19-SEP-2002.

XX PF 08-MAR-2002; 2002WO-US006908.

XX PR 08-MAR-2001; 2001US-0274101P.

XX PR 08-MAR-2001; 2001US-0274194P.

XX PR 08-MAR-2001; 2001US-0274281P.

XX PR 08-MAR-2001; 2001US-0274322P.

XX PR 09-MAR-2001; 2001US-0274849P.

XX PR 12-MAR-2001; 2001US-0275233P.

XX PR 13-MAR-2001; 2001US-0275578P.

XX PR 13-MAR-2001; 2001US-0275579P.

XX PR 14-MAR-2001; 2001US-0275601P.

XX PR 16-MAR-2001; 2001US-0276000P.

XX PR 19-MAR-2001; 2001US-0276767P.

XX PR 20-MAR-2001; 2001US-0277239P.

XX PR 20-MAR-2001; 2001US-0277321P.

XX PR 21-MAR-2001; 2001US-0277791P.

XX PR 22-MAR-2001; 2001US-0277833P.

XX PR 23-MAR-2001; 2001US-0278152P.

XX PR 26-MAR-2001; 2001US-0278894P.

XX PR 27-MAR-2001; 2001US-0278999P.

XX PR 28-MAR-2001; 2001US-0279036P.

XX PR 30-MAR-2001; 2001US-0279344P.

XX PR 30-MAR-2001; 2001US-0277338P.

XX PR 30-MAR-2001; 2001US-0279995P.

XX PR 02-APR-2001; 2001US-0280233P.

XX PR 02-APR-2001; 2001US-0280802P.

XX PR 02-APR-2001; 2001US-0280822P.

XX PR 02-APR-2001; 2001US-0280900P.





QY 84 MKRQGDANVKGREGIVKAHLIGVHDDIVSMYDYLAYKGLDHLPT--THVISDIQDFVVAL 142  
 Db 131 VKRE-----KGQGL-----DILNQYLDYPTRVHPHQSH--SDIDTLILKL 172  
 QY 143 SLEISDEGNITMTSFEVRQFANVNHIGLSILDPFGVLSVLTAFQDTRVKEMTKVL 202  
 Db 173 AQOY--HAHVITTDNFL-----NKVCHVQGITALN-----VNDLSEAIKPNVHQDQLSIL 221  
 QY 203 APAFKRE 209  
 Db 222 LTKIGKE 228  
 RESULT 88  
 ABW72477  
 ID ABW72477 standard; protein; 357 AA.  
 XX AC ABW72477;  
 XX DT 20-NOV-2003 (first entry)  
 XX DE Staphylococcus aureus protein #1717.  
 XX KW Antibacterial; vaccine; gene therapy; infection; sepsis; diagnosis;  
 KW enzymatic assay; antibiotic target.  
 XX OS Staphylococcus aureus.  
 XX PN W0200294868-A2.  
 XX PD 28-NOV-2002.  
 XX PF 27-MAR-2002; 2002WO-IB002637.  
 XX PR 27-MAR-2001; 2001GB-00007661.  
 XX PA (CHIR-) CHIRON SPA.  
 XX PI Massignani V, Mora M, Scarselli M;  
 XX WPI; 2003-120786/11.  
 XX DR N-PSDB; ACP74037.  
 XX PT New Staphylococcus aureus protein, useful as a vaccine for treating or  
 PT preventing Staphylococcal infection, specifically an infection caused by  
 PT S. aureus, e.g. sepsis.  
 XX PS Claim 1; SEQ ID NO 3434; 49pp; English.  
 XX CC The invention relates to novel genes and encoded proteins from  
 CC Staphylococcus aureus. A composition comprising the S. aureus protein, a  
 CC nucleic acid encoding the protein, or an antibody to the protein, is  
 CC useful as a pharmaceutical, particularly as a vaccine for treating or  
 CC preventing infection due to Staphylococcus bacteria, specifically an  
 CC infection caused by S. aureus. The composition is particularly useful for  
 CC treating or preventing sepsis in a patient. The composition can also be  
 CC used for diagnostics. The protein is also used in an assay for enzymatic  
 CC studies and as a target for antibiotics. This sequence represents one of  
 CC the novel S. aureus proteins of the invention  
 XX SQ Sequence 357 AA;  
 Query Match 7.7%; Score 82; DB 6; Length 357;  
 Best Local Similarity 23.9%; Pred. No. 6.2;  
 Matches 32; Conservative 25; Mismatches 51; Indels 26; Gaps 6;  
 QY 89 DANVKGREGIVKAHLIGVHDDIVSME-----YDLAYKGLDHLPT--THVISDI 135  
 Db 183 DGNILPQGVNELQIVADNSVKREKRGELDLNELYDLDYPTKVIHPTKTH--SDI 240  
 QY 136 QDFVVALSLEISDEGNITMTSFEVRQFANVNHIGLSILDPFGVLSVLTAFQDTRV 195  
 Db 241 DTMLKLAKQY--HAAVITTDNFL-----NKVCHVGIKALN-----VNDLSEAIKPNVHQ 289

QY 196 KEMTKVLAPAFKRE 209  
 Db 290 GDQLHILLTKVKGKE 303  
 RESULT 89  
 ABP39212  
 ID ABP39212 standard; protein; 362 AA.  
 XX AC ABP39212;  
 XX DT 24-JUL-2002 (first entry)  
 XX DE Staphylococcus epidermidis ORF amino acid sequence SEQ ID NO:4057.  
 XX KW Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;  
 KW antibacterial; gene therapy.  
 XX OS Staphylococcus epidermidis.  
 XX PN US6380370-B1.  
 XX PD 30-APR-2002.  
 XX PF 13-AUG-1998; 98US-00134001.  
 XX PR 14-AUG-1997; 97US-0055779P.  
 XX PR 08-NOV-1997; 97US-0064964P.  
 XX PA (GENO-) GENOME THERAPEUTICS CORP.  
 XX PI Doucette-Stamm LA, Bush D;  
 XX DR WPI; 2002-381255/41.  
 XX DR N-PSDB; ABN91757.  
 XX PT Novel isolated nucleic acid encoding a Staphylococcus epidermis  
 PT polypeptide, useful for diagnosing and treating bacterial infections.  
 XX PS Disclosure; SEQ ID NO 4057; 267pp; English.  
 XX CC ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading  
 CC frame (ORF) nucleic acid sequences which encode the amino acid sequences  
 CC given in ABP3124 to ABP37960. The S. epidermidis sequences have  
 CC antibacterial activity and can be used in gene therapy. The sequences can  
 CC also be used in the diagnosis and treatment of bacterial infections,  
 CC particularly S. epidermidis infections. The sequences can be used to  
 CC screen for compounds able to interfere with the S. epidermidis life cycle  
 CC or inhibit S. epidermidis infection. N.B. The sequence data for this  
 CC patent did not form part of the printed specification, but was obtained  
 CC in electronic format directly from the USPTO web site  
 XX SQ Sequence 362 AA;  
 Query Match 7.7%; Score 82; DB 5; Length 362;  
 Best Local Similarity 24.4%; Pred. No. 6.4;  
 Matches 31; Conservative 27; Mismatches 39; Indels 30; Gaps 7;  
 QY 84 MKRQGDANVKGREGIVKAHLIGVHDDIVSMYDYLAYKGLDHLPT--THVISDIQDFVVAL 142  
 Db 216 VKRE-----KGQGL-----DILNQYLDYPTRVHPHQSH--SDIDTLILKL 257  
 QY 143 SLEISDEGNITMTSFEVRQFANVNHIGLSILDPFGVLSVLTAFQDTRVKEMTKVL 202  
 Db 258 AQOY--HAHVITTDNFL-----NKVCHVQGITALN-----VNDLSEAIKPNVHQDQLSIL 306  
 QY 203 APAFKRE 209  
 Db 307 LTKIGKE 313  
 RESULT 90



XX 29-AUG-2003 (revised)  
DT 05-JUN-2002 (first entry)  
XX Chlamydia pneumoniae protein sequence SEQ ID NO:399.  
DE Chlamydia pneumoniae; Chlamydia; vaccine; detection; diagnosis; antigen;  
KW antibacterial; immunostimulant; immune response;  
KW Chlamydia-specific T-cell response.  
XX Chlamydia pneumoniae.  
OS Chlamydia pneumoniae.  
XX WO200208267-A2.  
PN 31-JAN-2002.  
XX 20-JUL-2001; 2001WO-US023121.  
XX 20-JUL-2000; 2000US-00620412.  
PR 23-APR-2001; 2001US-00841132.  
XX (CORI-) CORIXA CORP.  
XX Fling SP, Skeiky YAW, Probst P, Bhatia A;  
PI WPI; 2002-179901/23.  
DR Novel compositions comprising Chlamydia Cap1 protein and its use in the  
XX treatment of Chlamydia infection.  
XX Disclosure; Page 361-363; 537pp; English.  
XX The present invention describes compositions comprising a Chlamydia Cap1  
XX protein and methods for the diagnosis and therapy of Chlamydia infection.  
XX Chlamydia DNA and protein sequences from the present invention can have  
XX antibacterial and immunostimulant activities, and can be used in  
XX vaccines. Compounds from the present invention can be used for eliciting  
XX an immune response, specifically stimulating a Chlamydia-specific T-cell  
XX response or inhibiting the development of a Chlamydia infection in an  
XX animal. Methods from the present invention can be used for detecting the  
XX presence of Chlamydia in a patient; to stimulate and/or expand T cells  
XX specific for a Chlamydia protein; and for treatment of a Chlamydia  
XX infection. ABL92394 to ABL92709 and ABB94096 to ABB94374 represent  
XX sequences used in the exemplification of the present invention. (Updated  
XX on 29-AUG-2003 to standardise OS field)  
XX Sequence 461 AA;  
Query Match 7.7%; Score 82; DB 5; Length 461;  
Best Local Similarity 20.4%; Pred. No. 9;  
Matches 46; Conservative 44; Mismatches 69; Indels 66; Gaps 11;  
QY 23 DKITEE-----INKAIDDAIAIQSETIDPMKYPDHADKFE-----RH 61  
Db 219 NKFTQGIIRLTKRA---SISAIEESQNVIRITVNDQVEEFDYVLVAIGRQFNFTASIGLDN 275  
QY 62 VGIV-DFKGLAMANIIEARGLKQMKRQD-----ANVKGEGIVKAHLLIGVHDIVS 113  
Db 276 AGVTRDRGVTPVDWETNVPNIYAGDITGKWLAAHVASHQGVIAAKNISGHHB---V 332  
QY 114 MEYDLAVKGLDHPHTTTHVSDIQFVVALSLEISDEGNI---TWTSEVRQ----- 161  
Db 333 MDYSAIPSVIFTHP-----ETAMVGLSLQEAQQNLPAKLTKEFPFKAIGRAVALGAS 384  
QY 162 --PANVNH-----IGGLSLDIPFGVLSVDVLTAFQDTVRKEMT 199  
Db 385 DGFAAIVSHETIQOILGAYVIGPHASSLIGEMTL----AIRNELT 425  
RESULT 93  
ABU27059  
ID ABU27059 standard; protein; 461 AA.  
XX

AC ABU27059;  
XX 23-OCT-2003 (revised)  
DT 19-JUN-2003 (first entry)  
XX Protein encoded by Prokaryotic essential gene #12586.  
DE Antisense; prokaryotic essential gene; cell proliferation; drug design.  
KW Chlamydia pneumoniae.  
OS Chlamydia pneumoniae.  
XX WO200277183-A2.  
PN 03-OCT-2002.  
XX 21-MAR-2002; 2002WO-US009107.  
XX 21-MAR-2001; 2001US-00815242.  
PR 06-SEP-2001; 2001US-00948993.  
PR 25-OCT-2001; 2001US-0342923P.  
PR 08-FEB-2002; 2002US-00072851.  
PR 06-MAR-2002; 2002US-0362699P.  
XX (ELIT-) ELITRA PHARM INC.  
XX Wang L, Zamudio C, Malone C, Haselbeck R, Ohlsen KL, Zyskind JW;  
PI Wall D, Trawick JD, Carr GJ, Yamamoto R, Forsyth RA, Xu HH;  
XX WPI; 2003-029926/02.  
DR N-PSDB; ACA30929.  
XX New antisense nucleic acids, useful for identifying proteins or screening  
XX for homologous nucleic acids required for cellular proliferation to  
XX isolate candidate molecules for rational drug discovery programs.  
XX Claim 25; SEQ ID NO 54983; 1766pp; English.  
XX The invention relates to an isolated nucleic acid comprising any one of  
XX the 6213 antisense sequences given in the specification where expression  
XX of the nucleic acid inhibits proliferation of a cell. Also included are:  
XX (1) a vector comprising a promoter operably linked to the nucleic acid  
XX encoding a polypeptide whose expression is inhibited by the antisense  
XX nucleic acid; (2) a host cell containing the vector; (3) an isolated  
XX polypeptide or its fragment whose expression is inhibited by the  
XX antisense nucleic acid; (4) an antibody capable of specifically binding  
XX the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular  
XX proliferation or the activity of a gene in an operon required for  
XX proliferation; (7) identifying a compound that influences the activity of  
XX the gene product or that has an activity against a biological pathway  
XX required for proliferation, or that inhibits cellular proliferation; (8)  
XX identifying a gene required for cellular proliferation or the biological  
XX pathway in which a proliferation-required gene or its gene product lies  
XX or a gene on which the test compound that inhibits proliferation of an  
XX organism acts; (9) manufacturing an antibiotic; (10) profiling a  
XX compound's activity; (11) a culture comprising strains in which the gene  
XX product is overexpressed or underexpressed; (12) determining the extent  
XX to which each of the strains is present in a culture or collection of  
XX strains; or (13) identifying the target of a compound that inhibits the  
XX proliferation of an organism. The antisense nucleic acids are useful for  
XX identifying proteins or screening for homologous nucleic acids required  
XX for cellular proliferation to isolate candidate molecules for rational  
XX drug discovery programs, or for screening homologous nucleic acids  
XX required for proliferation in cells other than *S. aureus*, *S. typhimurium*,  
XX *K. pneumoniae* or *P. aeruginosa*. The present sequence is encoded by one of  
XX the target prokaryotic essential genes. Note: The sequence data for this  
XX patent did not form part of the printed specification, but was obtained  
XX in electronic format directly from WIPO at  
XX ftp.wipo.int/pub/published\_pct\_sequences. (Updated on 23-OCT-2003 to  
XX standardise OS field)  
XX Sequence 461 AA;  
Query Match 7.7%; Score 82; DB 6; Length 461;



XX 28-MAR-2001; 2001US-0279495P.  
PR 21-MAY-2001; 2001US-0292544P.  
PR 08-AUG-2001; 2001US-0310801P.  
PR 01-OCT-2001; 2001US-0326370P.  
PR 04-DEC-2001; 2001US-0336780P.  
PR 20-FEB-2002; 2002US-0358985P.  
XX (ZYCO-) ZYCOS INC.  
XX Chicx RM, Tomlinson AJ, Urban RG;  
XX WPI; 2003-040607/03.  
XX New polypeptides (e.g. kinases, phosphatases, proteases, transporters,  
PT cytoskeletal proteins, receptors or transcription factors), useful for  
PT treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or  
PT leukemia.  
XX Example 2; SEQ ID NO 1218; 134pp; English.  
XX The invention describes a purified polypeptide, which comprises a  
CC fragment of a kinase, phosphatase, protease, protease inhibitor,  
CC transporter, cytoskeletal protein, receptor or transcription factor. The  
CC polypeptide is useful as an immunogenic composition for eliciting in a  
CC mammal an immunogenic response directed against any of the purified  
CC polypeptide. The purified polypeptide, or the antibody that binds to this  
CC polypeptide, is useful for treating cancer. The polypeptide is also  
CC useful for identifying compounds that binds to a naturally processed  
CC class I or class II MHC-binding polypeptide. The polypeptides and  
CC polynucleotides are particularly useful for treating or preventing  
CC lymphoma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma,  
CC myeloma or leukemia. These are also useful for screening agents for  
CC treating the above mentioned diseases. This sequence represents an  
CC expressed protein tag (EFT) isolated from human tissue for translational  
CC profiling. Note: This sequence does not appear in the printed  
CC specification but was obtained in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX SQ Sequence 487 AA;  
Query Match 7.7%; Score 82; DB 6; Length 487;  
Best Local Similarity 20.7%; Pred. No. 9.7;  
Matches 48; Conservative 46; Mismatches 80; Indels 58; Gaps 11;  
QY 5 LLIAAFAVAVSADPHYDKITEE-INKAIDDAIAAEQSEIDPMKVPDADKPE-RHV 62  
Db 20 VLVAIGTAVTAANPGVGVVISOGLDYASQOCTAALQKE--LKRIKIPDYSDFRIKHL 77  
QY 63 GIVDFKGLAMRNIEAR-----GLKQKRGQDANVKGEGIVKHAHLIGV 107  
Db 78 G----KGHYFSYMDIREFOLPSSQISWPNVGLKFSISNANIKISGKKAQKRFKMG 133  
QY 108 HDDI---VSMEDVLAYKGLDHPHTTHVISDIOFVVALSLEISDGNITMTSFEVRQEA 163  
Db 134 NFDLSIEGMSISADL--KLGS-NFTS-----GKPIITSCSSSHI 170  
QY 164 NVVN-HIGGLSI-----LDPIFGVLSVLTALFQDTRKEMTKVLAPAK 207  
Db 171 NSVHVHISGSDVGLMIQLFHQIESALQNVANSQVCEMTNVSVDLQPYFQ 222  
RESULT 96  
AAY36857  
ID AAY36857 standard; protein; 530 AA.  
XX AAY36857;  
XX AAY36857;  
XX 07-OCT-1999 (first entry)  
XX Protein involved in intermediate metabolism of nucleic acids.  
XX Vaccine; eye disease; conventional trachoma; nonendemic trachoma;  
KW

KW paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis;  
KW nongonococcal urethritis; epididymitis; cervicitis; salpingitis;  
XX Bartholinitis; pneumonia; venereal lymphogranulomatosis.  
OS Chlamydia trachomatis.  
PN WO9928475-A2.  
XX 10-JUN-1999.  
XX 27-NOV-1998; 98WO-IB001939.  
XX 28-NOV-1997; 97FR-00015041.  
PR 17-DEC-1997; 97FR-00016034.  
PR 04-NOV-1998; 98US-0107077P.  
XX (GEST) GENSET.  
PA Griffais R;  
PI WPI; 1999-371125/31.  
DR Genome sequence of Chlamydia trachomatis.  
PT Disclosure; Page 731; 1755pp; English.  
XX AAY36754-Y37949 are encoded by open reading frames (ORFs) of the genome  
CC of Chlamydia trachomatis (see AA201425). The polypeptides can be used as  
CC vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences  
CC can also be used to control growth of the microorganism. Chlamydia  
CC trachomatis is responsible for a large number of diseases, e.g. eye  
CC diseases such as conventional trachoma, nonendemic trachoma, such as  
CC paratrachoma, and inclusion conjunctivitis; genital diseases, such as  
CC nongonococcal urethritis, epididymitis, cervicitis, salpingitis,  
CC perihepatitis, Bartholinitis; pneumonia; venereal lymphogranulomatosis; and  
CC venereal lymphogranulomatosis. The polypeptides of the invention may be  
CC of use in treating these diseases  
XX SQ Sequence 530 AA;  
Query Match 7.7%; Score 82; DB 2; Length 530;  
Best Local Similarity 21.6%; Pred. No. 11;  
Matches 45; Conservative 32; Mismatches 73; Indels 58; Gaps 9;  
QY 18 DPIHYDKITEI-NKAIDDAIAAEQSEIDPMKVPDADK---FEHVGVDFPKGELA 72  
Db 3 EPLYLQRIISYPLYNKSIHSHN-SHVPMSITSPPIEVSVLTDSIKNLEKFNLRVVVKGLS 61  
QY 73 MNIEARGLKQMKRGQDANVKGEGIVKHAHLIGVHDD-----IVSMEYDLAYKL 122  
Db 62 NVSLQTSG-----HLYFALKDSKAVLINGAFPHFRSKYFDRKPKD 100  
QY 123 GD---LHPTTHVISDIOF-VVALSLEISDGNITMTSFEVRQFANVNVNHHGGLSILDP- 177  
Db 101 GDVVLHGLKLTYPARGQYQIVAYALTFSGEGLN-----LQPFEEKQRLAABGYDFPK 154  
QY 178 -----IFGVLSVDVLTALFQDTRV 195  
Db 155 RKKPLPSGARVIGVITSPGTGAVIQDILR 182  
RESULT 97  
AAB94022  
ID AAB94022 standard; protein; 767 AA.  
XX AAB94022;  
XX AAB94022;  
XX 26-JUN-2001 (first entry)  
XX Human protein sequence SEQ ID NO:14155.  
XX Human; primer; detection; diagnosis; antisense therapy; gene therapy.  
XX

OS Homo sapiens.  
 PN EP1074617-A2.  
 XX  
 XX  
 PD 07-FEB-2001.  
 XX  
 XX 28-JUL-2000; 2000EP-00116126.  
 XX  
 XX 29-JUL-1999; 99JP-00248036.  
 PR 27-AUG-1999; 99JP-00300253.  
 PR 11-JAN-2000; 2000JP-00118776.  
 PR 02-MAY-2000; 2000JP-00183767.  
 PR 09-JUN-2000; 2000JP-00241899.  
 XX  
 XX (HELI-) HELIX RES INST.  
 XX  
 XX Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;  
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;  
 DR WPI; 2001-318749/34.  
 XX  
 PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-  
 PT length cDNAs defined in the specification, and for the detection and/or  
 PT diagnosis of the abnormality of the proteins encoded by the full-length  
 PT cDNAs.  
 XX  
 XX Claim 8; SEQ ID NO 14155; 2537pp + Sequence Listing; English.  
 PS  
 XX The present invention describes primer sets for synthesizing 5602 full-  
 CC length cDNAs defined in the specification. Where a primer set comprises:  
 CC (a) an oligo-dr primer and an oligonucleotide complementary to the  
 CC complementary strand of a polynucleotide which comprises one of the 5602  
 CC nucleotide sequences defined in the specification, where the  
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination  
 CC of an oligonucleotide comprising a sequence complementary to the  
 CC complementary strand of a polynucleotide which comprises a 5'-end  
 CC sequence and an oligonucleotide comprising a sequence complementary to a  
 CC polynucleotide which comprises a 3'-end sequence, where the  
 CC oligonucleotide comprises at least 15 nucleotides and the combination of  
 CC the 5'-end sequence/3'-end sequence is selected from those defined in the  
 CC specification. The primer sets can be used in antisense therapy and in  
 CC gene therapy. The primers are useful for synthesizing polynucleotides,  
 CC detection and/or diagnosis of the abnormality of the proteins encoded by  
 CC the full-length cDNAs. The primers are also useful for the  
 CC detection and/or diagnosis of the abnormality of the proteins encoded by  
 CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and  
 CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893  
 CC represent human amino acid sequences; and AAH13629 to AAH13632 represent  
 CC oligonucleotides, all of which are used in the exemplification of the  
 CC present invention  
 XX  
 XX Sequence 767 AA;  
 SQ  
 Query Match 7.7%; Score 82; DB 4; Length 767;  
 Best Local Similarity 22.9%; Pred. No. 18;  
 Matches 36; Conservative 30; Mismatches 55; Indels 36; Gaps 8;  
 QY 15 VSADPIHYDKITEINKAIDDAIAAEQSETIDPMKVPDHA-DKFERHVGIV---DFKGE 70  
 DB 543 VSAEKVKNK---THSVNGITEADPTIYSGKVIPLRSVDPQTNEYQGMIEIVEEGMKGE 599  
 QY 71 LAMENIEARGLKQMKROGDANVKGEGIVKAHLIGVHDDIVSMEDLA----- 119  
 DB 600 -----VYPPFGIVGMANKGDCLOKGES--VKFQLCV-LGQNAQTMAYNITPLRRATVECVK 651  
 QY 120 -----YKLGDLHPHTTHVISDIQDFVVALSLSEISDE 149  
 DB 652 DQFGFINVEGDSKLPFFHVKVQD---GIELQAGDE 685  
 RESULT 98  
 AAB94036  
 ID AAB94036 standard; protein; 767 AA.

XX AAB94036;  
 XX 26-JUN-2001 (first entry)  
 XX  
 XX Human protein sequence SEQ ID NO:14186.  
 XX  
 XX Human; primer; detection; diagnosis; antisense therapy; gene therapy.  
 XX Homo sapiens.  
 XX EP1074617-A2.  
 XX  
 XX 07-FEB-2001.  
 XX  
 XX 28-JUL-2000; 2000EP-00116126.  
 XX  
 XX 29-JUL-1999; 99JP-00248036.  
 PR 27-AUG-1999; 99JP-00300253.  
 PR 11-JAN-2000; 2000JP-00118776.  
 PR 02-MAY-2000; 2000JP-00183767.  
 PR 09-JUN-2000; 2000JP-00241899.  
 XX  
 XX (HELI-) HELIX RES INST.  
 XX  
 XX Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;  
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;  
 DR WPI; 2001-318749/34.  
 XX  
 PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-  
 PT length cDNAs defined in the specification, and for the detection and/or  
 PT diagnosis of the abnormality of the proteins encoded by the full-length  
 PT cDNAs.  
 XX  
 XX Claim 8; SEQ ID NO 14186; 2537pp + Sequence Listing; English.  
 PS  
 XX The present invention describes primer sets for synthesizing 5602 full-  
 CC length cDNAs defined in the specification. Where a primer set comprises:  
 CC (a) an oligo-dr primer and an oligonucleotide complementary to the  
 CC complementary strand of a polynucleotide which comprises one of the 5602  
 CC nucleotide sequences defined in the specification, where the  
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination  
 CC of an oligonucleotide comprising a sequence complementary to the  
 CC complementary strand of a polynucleotide which comprises a 5'-end  
 CC sequence and an oligonucleotide comprising a sequence complementary to a  
 CC polynucleotide which comprises a 3'-end sequence, where the  
 CC oligonucleotide comprises at least 15 nucleotides and the combination of  
 CC the 5'-end sequence/3'-end sequence is selected from those defined in the  
 CC specification. The primer sets can be used in antisense therapy and in  
 CC gene therapy. The primers are useful for synthesizing polynucleotides,  
 CC detection and/or diagnosis of the abnormality of the proteins encoded by  
 CC the full-length cDNAs. The primers are also useful for the  
 CC detection and/or diagnosis of the abnormality of the proteins encoded by  
 CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and  
 CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893  
 CC represent human amino acid sequences; and AAH13629 to AAH13632 represent  
 CC oligonucleotides, all of which are used in the exemplification of the  
 CC present invention  
 XX  
 XX Sequence 767 AA;  
 SQ  
 Query Match 7.7%; Score 82; DB 4; Length 767;  
 Best Local Similarity 22.9%; Pred. No. 18;  
 Matches 36; Conservative 30; Mismatches 55; Indels 36; Gaps 8;  
 QY 15 VSADPIHYDKITEINKAIDDAIAAEQSETIDPMKVPDHA-DKFERHVGIV---DFKGE 70  
 DB 543 VSAEKVKNK---THSVNGITEADPTIYSGKVIPLRSVDPQTNEYQGMIEIVEEGMKGE 599  
 QY 71 LAMENIEARGLKQMKROGDANVKGEGIVKAHLIGVHDDIVSMEDLA----- 119  
 DB 600 -----VYPPFGIVGMANKGDCLOKGES--VKFQLCV-LGQNAQTMAYNITPLRRATVECVK 651



**us-10-024-955-7.rag**

Qy 133 SDIQDFWALSLETSDEGNITWTSFEVROFANVVNHIGGL 172  
Db 153 ETQKSAITETLVASSONVETSDELHHTAGSISMSGKL 192

Search completed: August 6, 2004, 16:00:31  
Job time : 60 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: August 6, 2004, 15:59:26 ; Search time 19 Seconds  
(without alignments)  
578.754 Million cell updates/sec

Title: US-10-024-955-7

Perfect score: 1068

Sequence: 1 MMKFLIIAAVAFVAVSADPI.....VRKENTKVLAPAFKRELEKN 213

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Issued Parents AA:\*

1: /cgn2\_6/ptodata/2/iaa/5A COMB.pcp:\*

2: /cgn2\_6/ptodata/2/iaa/5B COMB.pcp:\*

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6: /cgn2\_6/ptodata/2/iaa/backfiles1.pcp:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1068	100.0	213	4	US-08-553-336A-7
2	962	90.1	215	4	US-08-553-336A-2
3	959	89.8	215	3	US-08-462-778-2
4	90	8.4	1786	3	US-08-973-462-8
5	88.5	8.3	439	1	US-08-336-618-12
6	88.5	8.3	439	1	US-08-336-618-26
7	88	8.2	393	4	US-09-393-858-2
8	88	8.2	436	4	US-09-393-858-5
9	86	8.1	415	4	US-09-252-991A-22392
10	84.5	7.9	294	1	US-08-479-017-9
11	84.5	7.9	294	3	US-08-479-017-9
12	84.5	7.9	823	4	US-09-134-001C-4081
13	84	7.9	314	4	US-09-498-520A-34
14	84	7.9	410	4	US-09-673-395A-197
15	84	7.9	649	4	US-09-489-039A-14142
16	83	7.8	583	4	US-09-107-532A-5678
17	83	7.8	845	4	US-09-565-501A-110
18	83	7.8	845	4	US-09-639-206A-110
19	83	7.8	845	4	US-09-874-923-110
20	82	7.7	362	4	US-09-134-001C-4057
21	82	7.7	397	4	US-09-198-452A-894
22	81.5	7.6	547	4	US-08-461-722-2
23	81.5	7.6	547	4	US-08-336-251-2
24	81.5	7.6	547	4	US-09-468-041-2
25	81.5	7.6	547	5	PCT-US94-06362-2
26	81.5	7.6	548	2	US-08-457-822-32
27	81.5	7.6	548	3	US-09-472-971-3
28	81.5	7.6	548	3	US-08-432-697-32
29	81.5	7.6	548	3	US-08-466-248-32
30	81	7.6	385	4	US-09-570-778A-12
31	81	7.6	385	4	US-09-391-138-12
32	81	7.6	470	4	US-09-673-395A-561
33	80.5	7.5	255	4	US-09-107-532A-4850
34	80.5	7.5	374	4	US-09-489-039A-8512
35	80.5	7.5	538	4	US-09-252-991A-19476
36	80	7.5	1504	4	US-09-252-991A-26608
37	80	7.5	1792	4	US-09-561-818A-12
38	80	7.5	1816	4	US-09-561-818A-10
39	79.5	7.4	458	1	US-08-336-618-24
40	79.5	7.4	557	4	US-09-543-681A-6606
41	79.5	7.4	906	1	US-08-094-889-1
42	79	7.4	400	4	US-09-252-991A-27391
43	79	7.4	593	4	US-09-252-991A-32411
44	79	7.4	768	4	US-09-252-991A-23008
45	78.5	7.4	166	4	US-09-134-000C-3522
46	78.5	7.4	437	4	US-09-134-000C-6150
47	78.5	7.4	672	4	US-09-040-843-4
48	78.5	7.4	672	4	US-09-621-855-4
49	78.5	7.4	866	3	US-09-040-843-2
50	78.5	7.4	866	4	US-09-621-855-2
51	78	7.3	511	4	US-09-489-039A-7682
52	78	7.3	516	4	US-09-252-991A-19045
53	78	7.3	1012	1	US-08-219-262B-7
54	78	7.3	1012	1	US-08-219-262B-8
55	78	7.3	1012	3	US-09-031-655-7
56	78	7.3	1012	3	US-09-031-655-8
57	77.5	7.3	166	4	US-09-107-532A-5004
58	77.5	7.3	409	4	US-09-252-991A-31003
59	77.5	7.3	946	3	US-09-074-579-3
60	77.5	7.3	946	3	US-09-388-774-3
61	77.5	7.3	1233	4	US-09-388-352-5704
62	77.5	7.3	1480	4	US-09-425-453A-8
63	77.5	7.3	1480	4	US-09-425-453A-18
64	77	7.2	1012	1	US-08-219-262B-3
65	77	7.2	1012	1	US-08-219-262B-5
66	77	7.2	1012	2	US-08-708-541A-30
67	77	7.2	1012	3	US-09-031-655-3
68	77	7.2	1012	3	US-09-031-655-5
69	77	7.2	1012	4	US-09-147-771-30
70	76.5	7.2	429	4	US-09-107-532A-3785
71	76	7.1	164	4	US-09-107-532A-6514
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73	76	7.1	1196	4	US-09-107-532A-3944
74	75.5	7.1	423	4	US-09-252-991A-21128
75	75.5	7.1	441	4	US-09-328-352-5426
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77	75.5	7.1	696	4	US-09-252-991A-16965
78	75.5	7.1	1012	1	US-07-944-525-2
79	75.5	7.1	1012	1	US-07-944-525-2
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82	75.5	7.1	1012	1	US-08-219-262B-12
83	75.5	7.1	1012	1	US-08-219-262B-14
84	75.5	7.1	1012	3	US-09-031-655-1
85	75.5	7.1	1012	3	US-09-031-655-2
86	75.5	7.1	1012	3	US-09-031-655-4
87	75.5	7.1	1012	3	US-09-031-655-12
88	75.5	7.1	1012	3	US-09-031-655-14
89	75.5	7.1	1012	3	US-09-031-655-14
90	75	7.0	193	4	US-09-252-991A-24505
91	75	7.0	458	4	US-09-540-236-3313
92	75	7.0	482	4	US-09-252-991A-17386
93	75	7.0	508	4	US-09-252-991A-17386
94	75	7.0	729	3	US-08-433-522A-6946
95	75	7.0	797	3	US-08-433-522A-4
96	75	7.0	797	3	US-08-433-522A-6
97	75	7.0	797	3	US-09-135-166-2
98	75	7.0	797	3	US-09-135-166-4
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100	75	7.0	797	3	US-09-135-166-6

Sequence 32, Appl  
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Sequence 32411, A  
Sequence 23008, A  
Sequence 3522, Ap  
Sequence 6150, Ap  
Sequence 4, Appl  
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Sequence 19045, A  
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Sequence 31003, A  
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Sequence 3785, Ap  
Sequence 6514, Ap  
Sequence 22095, A  
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Sequence 24505, A  
Sequence 3313, Ap  
Sequence 23213, A  
Sequence 17386, A  
Sequence 6946, Ap  
Sequence 2, Appl  
Sequence 4, Appl  
Sequence 6, Appl  
Sequence 2, Appl  
Sequence 4, Appl  
Sequence 6, Appl  
Sequence 4, Appl  
Sequence 6, Appl

## ALIGNMENTS

## RESULT 1

US-08-553-336A-7  
; Sequence 7, Application US/08553336A  
; Patent No. 6413738  
; GENERAL INFORMATION:

APPLICANT: Wayne R. Thomas and Kaw-Yan Chua  
; TITLE OF INVENTION: Allergenic Proteins and Peptides From  
; TITLE OF INVENTION: House Dust Mite and Uses Therefor  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/553,336A  
; FILING DATE: 10-JUN-1996  
; CLASSIFICATION: 424

PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/081,540  
; FILING DATE: 22-JUNE-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: IMI-032CP2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)227-7400  
; TELEFAX: (617)742-4214

INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 213 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-553-336A-7

Query Match 100.0%; Score 1068; DB 4; Length 213;  
Best Local Similarity 100.0%; Pred. No. 1.5e-113;  
Matches 213; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MMKELLIAAFAVAVSADPHYDKITTEINKAIDDAIAAEQSETIDPMKVPDHADKFER	60
Db	1	MMKELLIAAFAVAVSADPHYDKITTEINKAIDDAIAAEQSETIDPMKVPDHADKFER	60
QY	61	HVGIVDFKGLAMRNIEARGLKQMKROGDANVKGEIGVKAHLIGVHDDIVSMEYDLAY	120
Db	61	HVGIVDFKGLAMRNIEARGLKQMKROGDANVKGEIGVKAHLIGVHDDIVSMEYDLAY	120
QY	121	KLGLHPHTTHVISDIQDFVVALSLEISDEGNITWTSFEVRFQFANVNVNHIGGLSILDPFG	180
Db	121	KLGLHPHTTHVISDIQDFVVALSLEISDEGNITWTSFEVRFQFANVNVNHIGGLSILDPFG	180
QY	181	VLSDVLTAIFQDVTVRKEMTKVLAPAFKRELEKN	213
Db	181	VLSDVLTAIFQDVTVRKEMTKVLAPAFKRELEKN	213

## RESULT 2

US-08-553-336A-2  
; Sequence 2, Application US/08553336A  
; Patent No. 6413738

## GENERAL INFORMATION:

APPLICANT: Wayne R. Thomas and Kaw-Yan Chua  
; TITLE OF INVENTION: Allergenic Proteins and Peptides From  
; TITLE OF INVENTION: House Dust Mite and Uses Therefor  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/553,336A  
; FILING DATE: 10-JUN-1996  
; CLASSIFICATION: 424

PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/081,540  
; FILING DATE: 22-JUNE-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: IMI-032CP2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)227-7400  
; TELEFAX: (617)742-4214

INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 215 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-553-336A-2

Query Match 90.1%; Score 962; DB 4; Length 215;  
Best Local Similarity 85.9%; Pred. No. 1.9e-101;  
Matches 183; Conservative 18; Mismatches 12; Indels 0; Gaps 0;

QY	1	MMKELLIAAFAVAVSADPHYDKITTEINKAIDDAIAAEQSETIDPMKVPDHADKFER	60
Db	1	MMKELLIAAFAVAVSADPHYDKITTEINKAIDDAIAAEQSETIDPMKVPDHADKFER	60
QY	61	HVGIVDFKGLAMRNIEARGLKQMKROGDANVKGEIGVKAHLIGVHDDIVSMEYDLAY	120
Db	61	HVGIVDFKGLAMRNIEARGLKQMKROGDANVKGEIGVKAHLIGVHDDIVSMEYDLAY	120
QY	121	KLGLHPHTTHVISDIQDFVVALSLEISDEGNITWTSFEVRFQFANVNVNHIGGLSILDPFG	180
Db	121	KLGLHPHTTHVISDIQDFVVALSLEISDEGNITWTSFEVRFQFANVNVNHIGGLSILDPFG	180
QY	181	VLSDVLTAIFQDVTVRKEMTKVLAPAFKRELEKN	213
Db	181	VLSDVLTAIFQDVTVRKEMTKVLAPAFKRELEKN	213

## RESULT 3

US-08-462-778-2  
; Sequence 2, Application US/08462778  
; Patent No. 607517  
; GENERAL INFORMATION:

APPLICANT: Thomas, Wayne R.  
; APPLICANT: Chua, Kaw-Yan  
; TITLE OF INVENTION: Allergenic Protein and Peptides From  
; TITLE OF INVENTION: House Dust Mite and Uses Therefor  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lahive & Cockfield  
; STREET: 60 State Street

```
/ CITY: Boston
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02109
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/462,778
/ FILING DATE:
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: USN 08/031,141
/ FILING DATE: 12 March 1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Amy E. Mandragouras
/ REGISTRATION NUMBER: 36,207
/ REFERENCE/DOCKET NUMBER: IPC-053CP (IMI-032CP)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-227-7400
/ TELEFAX: 617-227-5941
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 215 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-462-778-2

Query Match 89.8%; Score 959; DB 3; Length 215;
Best Local Similarity 85.4%; Pred. No. 4,1e-101;
Matches 182; Conservative 19; Mismatches 12; Indels 0; Gaps 0;

QY 1 MMKFLIAAVAFVAVSADPHYDKITEEINKAIDDAIAIEQSETIDPMKVPDHDKPER 60
Db 1 MMKLLIAAAAFVAVSADPHYDKITEEINKAVDEAAIAEKSETPDKMKVPDHDKPER 60
QY 61 HVGIVDPKGLAMRNTAEARGLKQKQGDANVKGEGIVKKAHLIGVHDDIVSMEDLAY 120
Db 61 HIGIIDLKQGLDNRNLOVRGLKQKRGVDANVKGEGIVKKAHLIGVHDDIVSMEDLAY 120
QY 121 KLGLDHPHTTVISDIQDFVVALSLEISDEGNITMTSFVRQFANVNVHIGGLSILDPFG 180
Db 121 KLGLDHPHTTVISDIQDFVVELSLEVSEGNMTLTSFVRQFANVNVHIGGLSILDPFG 180
QY 181 VLSDVLTAFQDITVRKEMTKVLAPAKRELEKN 213
Db 181 VLSDVLTAFQDITVRKEMTKVLAPAKRELEKN 213

RESULT 4
US-08-973-462-8
; Sequence 8, Application US/08973462B
; Patent No. 6191270
; GENERAL INFORMATION:
; APPLICANT: DRUILHE, PIERRE
; APPLICANT: DAUBERSIES, PIERRE
; TITLE OF INVENTION: MALARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOLECULES
; FILE REFERENCE: 0660-0125-0 PCT
; CURRENT APPLICATION NUMBER: US/08/973,462B
; CURRENT FILING DATE: 1998-02-06
; EARLIER APPLICATION NUMBER: PCT/FR96/00894
; EARLIER FILING DATE: 1996-06-12
; EARLIER APPLICATION NUMBER: FR 95/07007
; EARLIER FILING DATE: 1995-06-13
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 1786
; TYPE: PRT
; ORGANISM: Artificial Sequence

/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Polypeptide
US-08-973-462-8

Query Match 8.4%; Score 90; DB 3; Length 1786;
Best Local Similarity 23.3%; Pred. No. 1;
Matches 47; Conservative 43; Mismatches 78; Indels 34; Gaps 9;

QY 22 YDKITEEINKAIDDAIAIEQSETIDPMKVPDHDKPERHVGIVDFKGLAMRNIARGL 81
Db 979 FNTVLDKVEETVEISGESLENNE---MDKAPFSEIFDNVKGIOENLLTGMRFSIETSI 1034
QY 82 KOMKROGDANVKGEGIVKKAHLIGVHDDIVSMEDLAYKLGDLHPHTTVISDIQDFVVA 141
Db 1035 IQSEKVDLN---ENVVSSIL-----DNENKKEGLLNKLEISSTEGVQETVTEHV-- 1083
QY 142 LSLEISDEGNITMTSFV---ROFANVNVHIGGLS-----ILDDIFGVLSOVLTA--IFQ 191
Db 1084 -----EQNV-YVDVDVPAMKQDFGLINBAGGLKEMFFNLEDVFKSESVDITVEIKD 1135
QY 192 DTVRKEMTKVLAPAKRELEKN 213
Db 1136 EPVQREVEKETVSIIE-EMEEN 1156

RESULT 5
US-08-336-618-12
; Sequence 12, Application US/08336618
; Patent No. 5763590
; GENERAL INFORMATION:
; APPLICANT: Peattie, Debra A.
; APPLICANT: Harding, Matthew W.
; APPLICANT: Livingston, David J.
; TITLE OF INVENTION: ISOLATION OF AN Mx 52,000 FK506 BINDING
; TITLE OF INVENTION: PROTEIN AND MOLECULAR CLONING OF A CORRESPONDING HUMAN
; TITLE OF INVENTION: CDNA
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESS: Hamilton, Brook, Smith and Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/336,618
; FILING DATE: 09-NOV-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/963,325
; FILING DATE: 16-OCT-1992
; APPLICATION NUMBER: US 07/777,752
; FILING DATE: 11-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/
; FILING DATE: 09-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: VPI91-06A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-6240
; TELEFAX: 617-861-9540
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 459 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
```

```
; MOLECULE TYPE: protein
US-08-336-618-12
Query Match      8.3%; Score 88.5; DB 1; Length 459;
Best Local Similarity 24.6%; Pred. No. 0.19;
Matches 30; Conservative 25; Mismatches 50; Indels 17; Gaps 3;

QY 18 DPHYDKITEINKAIDDAIAAIEQSETI-----DPMKVPDHAD-KFERHV 62
DB 75 DKFSFDLKGGEVIRKAWDIAIATMKVGEVCHITCKPEYAYGSAGSPKIPPNATLVFE--V 132
QY 63 GIVDPFKGELAMNTEARGLKQMKROGDANVKGEIGVKAHLIGVHDDIVSMEYDLAYKL 122
DB 133 ELFEFKGEDLTBEEDGGIIRRIQTRGEGYAKPNEGAIVEVALEGGYKDKLPDQRELRFEI 192
QY 123 GD 124
DB 193 GE 194

RESULT 6
US-08-336-618-26
; Sequence 26, Application US/083336618
; Patent No. 5763590
; GENERAL INFORMATION:
; APPLICANT: Peattie, Debra A.
; APPLICANT: Harding, Matthew W.
; APPLICANT: Livingston, David J.
; TITLE OF INVENTION: ISOLATION OF AN MR 52,000 FK506 BINDING
; TITLE OF INVENTION: PROTEIN AND MOLECULAR CLONING OF A CORRESPONDING HUMAN
; TITLE OF INVENTION: CDNA
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith and Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/336.618
; FILING DATE: 09-NOV-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: 07/963,325
; FILING DATE: 16-OCT-1992
; APPLICATION NUMBER: US 07/777,752
; FILING DATE: 11-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/
; FILING DATE: 09-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: VPI91-06A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-6240
; TELEFAX: 617-861-9540
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 459 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-336-618-26
Query Match      8.3%; Score 88.5; DB 1; Length 459;
Best Local Similarity 24.6%; Pred. No. 0.19;

Matches 30; Conservative 25; Mismatches 50; Indels 17; Gaps 3;

QY 18 DPHYDKITEINKAIDDAIAAIEQSETI-----DPMKVPDHAD-KFERHV 62
DB 75 DKFSFDLKGGEVIRKAWDIAIATMKVGEVCHITCKPEYAYGSAGSPKIPPNATLVFE--V 132
QY 63 GIVDPFKGELAMNTEARGLKQMKROGDANVKGEIGVKAHLIGVHDDIVSMEYDLAYKL 122
DB 133 ELFEFKGEDLTBEEDGGIIRRIQTRGEGYAKPNEGAIVEVALEGGYKDKLPDQRELRFEI 192
QY 123 GD 124
DB 193 GE 194

RESULT 7
US-09-393-858-2
; Sequence 2, Application US/09393858
; Patent No. 6627747
; GENERAL INFORMATION:
; APPLICANT: Fritz, Christian
; APPLICANT: Youngman, Philip
; APPLICANT: Guzman, Luz-Maria
; TITLE OF INVENTION: ESSENTIAL BACTERIAL GENES AND THEIR USE
; FILE REFERENCE: 06286-088001
; CURRENT APPLICATION NUMBER: US/09/393,858
; PRIOR FILING DATE: 1999-09-09
; PRIOR APPLICATION NUMBER: 60/099,578
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 393
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-393-858-2
Query Match      8.2%; Score 88; DB 4; Length 393;
Best Local Similarity 21.8%; Pred. No. 0.17;
Matches 46; Conservative 34; Mismatches 89; Indels 42; Gaps 8;

QY 30 NKAIDDAIAAIEQSETIIDPMKVPDHADKFERHVIGVDFKGLAMNTEARGLKQMKROGD 89
DB 21 NFAGIERISIVEDVEGTRDRIYATGEWLNRSFSMIDTGG---IDDVDAPFMEQIKHQA 77
QY 90 AN-----VKGEGIVK-----AHLIGVHDDIV-----SMEYDL-----AYK 121
DB 78 IAMEEADVIVFVSGKEGITDADEVARKLYKTHKPVILAVNKVDNPMRNDIYDFVALG 137
QY 122 IGDLPHTTHV-----ISDIQDFVALSLEISDEGNITMTSFEVROFANV-----VNHIGGL 172
DB 138 LGEPLPISSVHGIGTGVDLDAIVENLPNEYEEENPDVVKFSLGRPNVNGKSLINAILGE 197
QY 173 S--ILDPIFGVLSVDLTAIFODTVRKEMTKV 201
DB 198 DRVIASPVAGTTRDAIDTHTDTCQEFMTI 228

RESULT 8
US-09-393-858-5
; Sequence 5, Application US/09393858
; Patent No. 6627747
; GENERAL INFORMATION:
; APPLICANT: Fritz, Christian
; APPLICANT: Youngman, Philip
; APPLICANT: Guzman, Luz-Maria
; TITLE OF INVENTION: ESSENTIAL BACTERIAL GENES AND THEIR USE
; FILE REFERENCE: 06286-088001
; CURRENT APPLICATION NUMBER: US/09/393,858
; PRIOR FILING DATE: 1999-09-09
; PRIOR APPLICATION NUMBER: 60/099,578
; NUMBER OF SEQ ID NOS: 43
```

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; SOFTWARE: PastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 436
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-393-858-5

Query Match      8.2%; Score 88; DB 4; Length 436;
Best Local Similarity 21.8%; Pred. No. 0.2; Indels 42; Gaps 8;
Matches 46; Conservative 34; Mismatches 89;

QY 30 NKAIDDAIAIEQSETIDPMKVPDHADKFERHVGIVDFKGLAMRNIEARGLKQKQD 89
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 21 NRIAGERISIVEDVEGTRDRIATGEWLNRSFSDMTG---IDVDAPFMEQIKQAE 77
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 90 AN-----VKREGIVK-----AHLIGHVDIV-----SVEYDL-----AYK 121
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 78 IAMEADVIVFVVGEGITDADYVARKLYKTHKPVILAVNKVDNPEVRNDIYFYALG 137
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 122 LGDLHPTTHV---ISDIQDFVVALSLEISDEGNITWTSFEVROFANV-----VNHIGL 172
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 138 LGFELPISSVHGIGTGVDLDAIVENLPNEYEEENPDVIFSLIGRPNVCKSLINAILGE 197
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 173 S--ILDPIFCVLSDVLTALPQDTPVRKEMTKV 201
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 198 DRVIASPVAGTTRDAIDTHFTDQGEFTMI 228
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 9
US-09-252-991A-22392
; Sequence 22392, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22392
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (328)
; OTHER INFORMATION: Identity of amino acid at the above locations are unknown.
US-09-252-991A-22392

Query Match      8.1%; Score 86; DB 4; Length 415;
Best Local Similarity 22.6%; Pred. No. 0.32; Indels 38; Gaps 4;
Matches 28; Conservative 19; Mismatches 39;

QY 24 KITEINKAIDDAIAIEQSETIDPMKVPDHADKFERHVGIVDFKGLAMRNIEARGLKQ 83
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 83 KVLDEARLAIDARA-----EHG-----ELRGSRLRVTTTQYGLRQ 118
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 84 MKRGDANVKGEGIVKAHLIGV-----HDDIVSMEYDLAVKGLDLPHTTHVISDIQ 136
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 119 L-----VPLQAFARLHPALQVLSTSSLHADLIGERFDVAIRLGRLEDSTHHVQLA 171
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 137 DFVV 140
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 172 SFEV 175
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 10
US-08-137-175A-9
```

```
; Sequence 9, Application US/08137175A
; Patent No. 577095
; GENERAL INFORMATION:
; APPLICANT: BARBOUR, Alan G.
; APPLICANT: BERGSTROM, Sven
; APPLICANT: HANSSON, Lennart
; TITLE OF INVENTION: IMPROVEMENT IN BORRELIA BURGDORFERI AND
; TITLE OF INVENTION: PROPHYLAXIS
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/137,175A
; FILING DATE: 26-OCT-1993
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08972
; FILING DATE: 22-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: COOPER, Iver P.
; REGISTRATION NUMBER: 28,005
; REFERENCE/DOCKET NUMBER: BARBOUR-1B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 294 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-137-175A-9

Query Match      7.9%; Score 84.5; DB 1; Length 294;
Best Local Similarity 22.3%; Pred. No. 0.28; Indels 51; Gaps 12;
Matches 52; Conservative 43; Mismatches 97;

QY 1 MKKPLL-----IAAVAFVAVSADPIHYDKITEINK-----AIDDAIAIEQS 43
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1 MKKYLGPALVALIACQKGAEPKENDQDVEDLKQKQKDSKDLPLVTEDTVKLFNN 60
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 44 ETIDPMKVPDHADKFERHVGIVDFKGLAMRNIEARGLKQKQDANVKGEGIVKAHL 103
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 61 E-IFTSKEKEDDKYELR-SIVD-----KVELKGLSE-KNTGAGELEGKA-DKSKV 108
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 104 LIGVHDDI--VSME-YD-----LAYKLGDLHPTTHVISDIQDFVALSLEISDEGN 151
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 109 TMLVSDUNTITTIYDPSNKKISSQVAKGSGSTTEYTKSKLS-----AKKITRSNN 162
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 152 ITMTSFEVROFANVNNHI-----GGSLIDPIFGVLSVDVLTALFQDTPVRKEMTK 200
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 163 TTIEYTEMDADNASKAVETLKNGLTLEGLSVGGKTTLTITKEGTVTLKKEIEK 215
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 11
US-08-479-017-9
; Sequence 9, Application US/08479017
; Patent No. 6143872
; GENERAL INFORMATION:
; APPLICANT: BARBOUR, Alan G.
; APPLICANT: BERGSTROM, Sven
; APPLICANT: HANSSON, Lennart
```

TITLE OF INVENTION: IMPROVEMENT IN BORRELIA BURGDORFERI AND  
TITLE OF INVENTION: PROPHYLAXIS  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/479,017  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/137,175  
FILING DATE: 26-OCT-1993  
APPLICATION NUMBER: PCT/US92/08972  
FILING DATE: 22-OCT-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: COOPER, Iver P.  
REGISTRATION NUMBER: 28,005  
REFERENCE/DOCKET NUMBER: BARBOUR-1B  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-628-5197  
TELEFAX: 202-737-3528  
TELEX: 248633  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 294 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-479-017-9

Query Match 7.9%; Score 84.5; DB 3; Length 294;  
Best Local Similarity 22.3%; Pred. No. 0.28;  
Matches 52; Conservative 43; Mismatches 87; Indels 51; Gaps 12;  
QY 1 MKKTELL-----IAAVAFVAVSADPIHYDKITEINK-----AIDDAIAAEQS 43  
DB 1 MKKYLGFALVIALIACGKAEKXNDQVEDLKKDQKDDSKDLPLVTEDEVKLFNN 60  
QY 44 ETIDPMKVPDHPADKFERHVGIVDPKGLAMRNIEARGLKQWKQGDANVKGBEGIVKAHL 103  
DB 61 E-IPISKEKNDDKVELR-SIVD-----KVELKGLSE-KNTGAGELEGLKA-DKSKV 108  
QY 104 LIGVHDDI--VSME-YD-----LAYKLGDLHPTTHVISDIQDPFVVALSLEISDEGN 151  
DB 109 TMLVSDLLNTIITIDPSNKKISSQVAKQGSITETYSKLS-----AKITRSNN 162  
QY 152 ITMTSFVRQFANVNNHI-----GGLSILDPFVGLSDVLTAFQDVRKEMTK 200  
DB 163 TTIEVTEMTADNASKAVETLKNGITLEGSIVGGKTLTIKEGTVTLKBEIK 215

RESULT 12  
US-09-134-001C-4081  
; Sequence 4081, Application US/09134001C  
; Patent No. 6380370  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: GTC-007  
; CURRENT APPLICATION NUMBER: US/09/134,001C  
; PRIOR FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/064,964

; PRIOR FILING DATE: 1997-11-08  
; PRIOR APPLICATION NUMBER: US 60/055,779  
; PRIOR FILING DATE: 1997-08-14  
; NUMBER OF SEQ ID NOS: 5674  
; SEQ ID NO 4081  
; LENGTH: 823  
; TYPE: PRT  
; ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-4081

Query Match 7.9%; Score 84.5; DB 4; Length 823;  
Best Local Similarity 23.0%; Pred. No. 1.4;  
Matches 50; Conservative 35; Mismatches 87; Indels 45; Gaps 11;  
QY 18 DPIH-----YDKITEINKAIDDAIAAEQSEITIDPMKVPDHPADKFERHVGIVFKGELA 72  
DB 510 DTLHKRVIGQNDVANSISKAVRRAGLK-----DP-----KRPISGFIPLGPTG 554  
QY 73 MNIE-ARGL-KMKRQGDANVKGE-EGIVKAHL---LIGV-----HDDIVSMEYDLAY 120  
DB 555 VGKTELARALAESMFGEEDDAMIRVDMSEFMKHAVSRVLVGAPPVGVGHDDGGQLTEKVR 614  
QY 121 KLGDLHPTTHVISD-----IQDFVVALSLEISDEGNITMTSFVRQFANV---NHIGGL 172  
DB 615 K-----PYSVILFDEIEKAHPDVFNILLQVLDGHLTDTKGRTVDFRNTVIMTSNVAQ 669  
QY 173 SILDPFVGLSDVLTAFQDVRKEMTKVLAPAKRE 209  
DB 670 ELQQRFAFGGASEGSDYETVRKTMKELKNSRPE 706

RESULT 13  
US-09-498-520A-34  
; Sequence 34, Application US/09498520A  
; Patent No. 6613553  
; GENERAL INFORMATION:  
; APPLICANT: Rock, Charles O  
; APPLICANT: Heath, Richard J  
; TITLE OF INVENTION: No. 6613553el Enoyl Reductases and Methods of Use Thereof  
; FILE REFERENCE: SJ-0022  
; CURRENT APPLICATION NUMBER: US/09/498,520A  
; CURRENT FILING DATE: 2000-02-04  
; NUMBER OF SEQ ID NOS: 62  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 34  
; LENGTH: 314  
; TYPE: PRT  
; ORGANISM: Thermotoga maritima  
US-09-498-520A-34

Query Match 7.9%; Score 84; DB 4; Length 314;  
Best Local Similarity 23.5%; Pred. No. 0.35;  
Matches 48; Conservative 32; Mismatches 76; Indels 48; Gaps 10;  
QY 23 DKITEINKAIDDAIAA---IQSEITIDPMKVPDHPADKFERHV-----GIVDPKGLA 72  
DB 122 DSLAMVERAGADAVIAEGMESGGHIGVTTFLVKNKVSRSVNPVIAAGGIADGRGNA 181  
QY 73 MNIEARGLKQMKR-----QGDANVKGBEGIVKAHLIGVHDDIVSMEYDLAYKLGDLHP 127  
DB 182 AFALGAEAVQMGTRFVASVESDVHPVYKEKIVKA-----SIRDTVVT-----GAKLG--HP 230  
QY 128 T-----THVISDIQDPFVVALSLEISD-----EGNITMTSFVRQFANVNHIGGL 172  
DB 231 ARVLRTPFARKIQEMEFENPMQAEMLVGSRLRAVVEGDLERGSFVVGQSAGLIDEI--- 287  
QY 173 SILDPFVGLSDVLTAFQDVRK 196  
DB 288 ---KEVKQIIEIDLKE-FKEIVTEK 307

RESULT 14  
US-09-673-395A-197

	QY	122 LGDLHPPTHVVISDIODFWALSLEISDEGNITMTSPFVFROFANVN--HIGGLSILDPI 178
	DB	404 EGDHALNHVSILTFPAASMSALVGAGKTKTVIKLMR-YADPQQGQSIGGVDRRLT 462
	QY	179 FGVLSDVLTAIFOD 192
	DB	463 PEQLNSLISVVVD 476
 RESULT 16 US-09-107-532A-5678 ; Sequence 5678, Application US/09107532A ; Patent No. 6583275 ; GENERAL INFORMATION: ; APPLICANT: Lynn A Doucette-Stamm and David Bush ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS ; NUMBER OF SEQUENCES: 7310 ; CORRESPONDENCE ADDRESS: ; ADDRESSEE: GENOME THERAPEUTICS CORPORATION ; STREET: 100 Beaver Street ; CITY: Waltham ; STATE: Massachusetts ; COUNTRY: USA ; ZIP: 02354 ; COMPUTER READABLE FORM: ; MEDIUM TYPE: CD-ROM ISO9660 ; COMPUTER: PC ; OPERATING SYSTEM: <Unknown> ; SOFTWARE: ASCII ; CURRENT APPLICATION DATA: ; APPLICATION NUMBER: US/09/107,532A ; FILING DATE: 30-Jun-1998 ; PRIOR APPLICATION DATA: ; APPLICATION NUMBER: 60/085,598 ; FILING DATE: 14 May 1998 ; APPLICATION NUMBER: 60/051571 ; FILING DATE: July 2, 1997 ; ATTORNEY/AGENT INFORMATION: ; NAME: Ariniello, Pamela Deneske ; REGISTRATION NUMBER: 40,489 ; REFERENCE/DOCKET NUMBER: GTC-012 ; TELECOMMUNICATION INFORMATION: ; TELEPHONE: (781)893-5007 ; TELEFAX: (781)893-8277 ; INFORMATION FOR SEQ ID NO: 5678: ; SEQUENCE CHARACTERISTICS: ; LENGTH: 583 amino acids ; TYPE: amino acid ; TOPOLOGY: linear ; MOLECULE TYPE: protein ; HYPOTHETICAL: YES ; ORIGINAL SOURCE: ; ORGANISM: Enterococcus faecium ; FEATURE: ; NAME/KEY: misc feature ; LOCATION: (B) LOCATION 1...583 ; SEQUENCE DESCRIPTION: SEQ ID NO: 5678:  US-09-107-532A-5678		
		Query Match 7.8%; Score 83; DB 4; Length 583;
		Best Local Similarity 18.7%; Pred No. 1.2;
		Matches 35; Conservative 36; Mismatches 76; Indels 40; Gaps 6;
	QY	27 EFINKAIDAIAIEQSSETIDPMKVDPHADKFPHVIVDFKGELAWNRTEARGLKMKR 86
	DB	66 ESLNDTIENLAAPDSNPVKSYFSNDPAQHME-----OLOLRTIQK 108
	QY	87 QGDANK-----GEEGIKHAHLIGVDDIVSMEDYLAKLGDLHPHTHVISD 134
	DB	109 MDLSUKHEMIDYDVLIFFGENG----RTFVG-NMLTAVSADFQSAIQRVNERAAD 163

QY 135 IQDFVWLSLEISDEGNITWTSFEVROFANVNVHIGLSILDPFGVLSVLTAFQDTV 194  
DB 164 TOMLFAHGLTLDK--APSVFFVKLKNLNVHYGYAVL-----SISKOLANLFQSVV 217  
QY 195 RKENTKV 201  
DB 218 NPEISKI 224

## RESULT 17

US-09-565-501A-110  
; Sequence 110, Application US/09565501A

; Patent No. 6607731

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Campos-Neto, Antonio

; APPLICANT: Webb, John R.

; APPLICANT: Dillion, Davin C.

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Bhatia, Ajay

; APPLICANT: Coler, Rhea

; APPLICANT: Probst, Peter

; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE

; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS

; FILE REFERENCE: 210121.420C6

; CURRENT FILING DATE: 2000-05-05

; NUMBER OF SEQ ID NOS: 112

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 110

; LENGTH: 845

; TYPE: PRT

; ORGANISM: Leishmania major

; NAME/KEY: VARIANT

; LOCATION: (1)...(845)

; OTHER INFORMATION: Xaa = Any Amino Acid

US-09-565-501A-110

## Query Match

Best Local Similarity 7.8%; Score 83; DB 4; Length 845;

Mismatches 42; Conservative 34; Indels 34; Gaps 10;

QY 29 INKAIDDAIAAEQSEITIDPMKVPDHADKFERHVGIVDFKGLAMRNIEARGLKQMKRQG 88

DB 2 VNFVDQVRELMYDPDQIRNMSVIAHVD-----HGKSTLSDSLVAAGIIRKMEEG 52

QY 89 DANV---KGEGIVKAHLIGVHDDIVSMYDLAYK-LGDLHPTTHVISDIQDFVWALS 144

DB 53 DKRIMDTRADL-IARG---ITIKSTAISMHYHVPKEMIGDLD-----DKRDFLINL-- 100

QY 145 EISDEGNITWTSFEVROFANVNVHIGLSILDPFGVLSVLTAFQDTVRKEMTKVLAP 204

DB 101 -IDSPGHVDFSS-EVTAALRVTD--GALVVVDCVGVQVQTETVL-----RQALTERIRP 151

## RESULT 18

US-09-639-206A-110

; Sequence 110, Application US/09639206A

; Patent No. 6613337

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Campos-Neto, Antonio

; APPLICANT: Webb, John R.

; APPLICANT: Dillion, Davin C.

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Bhatia, Ajay

; APPLICANT: Coler, Rhea

; APPLICANT: Probst, Peter

; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE

; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS

; FILE REFERENCE: 210121.420C7

; CURRENT APPLICATION NUMBER: US/09/639,206A

; CURRENT FILING DATE: 2000-08-14  
; NUMBER OF SEQ ID NOS: 112  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 110  
; LENGTH: 845  
; TYPE: PRT  
; ORGANISM: Leishmania major  
; NAME/KEY: VARIANT  
; LOCATION: (1)...(845)  
; OTHER INFORMATION: Xaa = Any Amino Acid  
US-09-639-206A-110

## Query Match

Best Local Similarity 7.8%; Score 83; DB 4; Length 845;

Mismatches 42; Conservative 34; Indels 34; Gaps 10;

QY 29 INKAIDDAIAAEQSEITIDPMKVPDHADKFERHVGIVDFKGLAMRNIEARGLKQMKRQG 88

DB 2 VNFVDQVRELMYDPDQIRNMSVIAHVD-----HGKSTLSDSLVAAGIIRKMEEG 52

QY 89 DANV---KGEGIVKAHLIGVHDDIVSMYDLAYK-LGDLHPTTHVISDIQDFVWALS 144

DB 53 DKRIMDTRADL-IARG---ITIKSTAISMHYHVPKEMIGDLD-----DKRDFLINL-- 100

QY 145 EISDEGNITWTSFEVROFANVNVHIGLSILDPFGVLSVLTAFQDTVRKEMTKVLAP 204

DB 101 -IDSPGHVDFSS-EVTAALRVTD--GALVVVDCVGVQVQTETVL-----RQALTERIRP 151

## RESULT 19

US-09-874-923-110

; Sequence 110, Application US/09874923

; Patent No. 6638517

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Campos-Neto, Antonio

; APPLICANT: Webb, John R.

; APPLICANT: Dillion, Davin C.

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Bhatia, Ajay

; APPLICANT: Coler, Rhea

; APPLICANT: Probst, Peter

; APPLICANT: Brannon, Mark

; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE

; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS

; FILE REFERENCE: 210121.420C8

; CURRENT APPLICATION NUMBER: US/09/874,923

; CURRENT FILING DATE: 2001-06-04

; NUMBER OF SEQ ID NOS: 122

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 110

; LENGTH: 845

; TYPE: PRT

; ORGANISM: Leishmania major

; NAME/KEY: VARIANT

; LOCATION: (1)...(845)

; OTHER INFORMATION: Xaa = Any Amino Acid

US-09-874-923-110

## Query Match

Best Local Similarity 7.8%; Score 83; DB 4; Length 845;

Mismatches 42; Conservative 34; Indels 34; Gaps 10;

QY 29 INKAIDDAIAAEQSEITIDPMKVPDHADKFERHVGIVDFKGLAMRNIEARGLKQMKRQG 88

DB 2 VNFVDQVRELMYDPDQIRNMSVIAHVD-----HGKSTLSDSLVAAGIIRKMEEG 52

QY 89 DANV---KGEGIVKAHLIGVHDDIVSMYDLAYK-LGDLHPTTHVISDIQDFVWALS 144

DB 53 DKRIMDTRADL-IARG---ITIKSTAISMHYHVPKEMIGDLD-----DKRDFLINL-- 100



QY 145 HISDEGNITMTSEVRQFANVNVHIGLSILDPFGVLSVLTALFQDVTVRKEMTKVLAP 204  
Db 101 -IDSPGHVDFSS-EVTAALRVTD--GALVWVDCVEGVCVQETVL-----RQALTERIRP 151

RESULT 20  
US-09-134-001C-4057  
; Sequence 4057, Application US/09134001C  
; Patent No. 6380370  
; GENERAL INFORMATION:  
; APPLICANT: Lynn Doucette-Stamm et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: GTC-007  
; CURRENT APPLICATION NUMBER: US/09/134,001C  
; CURRENT FILING DATE: 1998-08-13  
; PRIOR APPLICATION NUMBER: US 60/064,964  
; PRIOR FILING DATE: 1997-11-08  
; PRIOR APPLICATION NUMBER: US 60/055,779  
; PRIOR FILING DATE: 1997-08-14  
; NUMBER OF SEQ ID NOS: 5674  
; SEQ ID NO 4057  
; LENGTH: 362  
; TYPE: PRT  
; ORGANISM: Staphylococcus epidermidis  
US-09-134-001C-4057

Query Match 7.7%; Score 82; DB 4; Length 362;  
Best Local Similarity 24.4%; Pred. No. 0.74;  
Matches 31; Conservative 27; Mismatches 39; Indels 30; Gaps 7;

QY 84 MKEQDGNVKGEGIVKAHLIGHVDIVSMEDYLA YKGLDLPHT-THVISDIQDFVVAL 142  
Db 216 VKRE-----KGQGL-----DILNQLYLDYPTFVHPTQSH--SDIDTLILKL 257

QY 143 SLEISDEGNITMTSEVRQFANVNVHIGLSILDPFGVLSVLTALFQDVTVRKEMTKVL 202  
Db 258 AQCY--HAHVITTDENL---NKVCHVQGTALN-----VNDLSEAIPENHVHQQDLSIL 306

QY 203 APAFKE 209  
Db 307 LTKIGKE 313

RESULT 21  
US-09-198-452A-894  
; Sequence 894, Application US/09198452A  
; Patent No. 8559294  
; GENERAL INFORMATION:  
; APPLICANT: Griffiths, R.  
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection  
; TITLE OF INVENTION: and treatment of infection  
; FILE REFERENCE: 9710-003-999  
; CURRENT APPLICATION NUMBER: US/09/198,452A  
; CURRENT FILING DATE: 1998-11-24  
; NUMBER OF SEQ ID NOS: 6849  
; SEQ ID NO 894  
; LENGTH: 397  
; TYPE: PRT  
; ORGANISM: Chlamydia pneumoniae  
US-09-198-452A-894

Query Match 7.7%; Score 82; DB 4; Length 397;  
Best Local Similarity 20.4%; Pred. No. 0.85;  
Matches 46; Conservative 44; Mismatches 69; Indels 66; Gaps 11;

QY 23 DKITEE-----INKAIDDAIAIEQSETIDPMKYPDHADKE-----RH 61  
Db 155 NKFTKQIRILTKA---SISAIBESQNVRTVNDQVEEFYVNVAGROFNFTASGLDN 211

QY 62 VGIV-DFKGEIAMRNIEARGLKQMKRQD-----ANKGEEGIVKAHLIGHVDIVS 113

Db 212 AGVIRDRGVIPVDETMTNVTNFIYALGIDITGKWLHVAHQVIAAKNISGHEB---V 268  
QY 114 MEYDLAYKGLDLPHTTHVISDIQDFVVALSLEISDEGNI--TWTSFEVRQ----- 161  
Db 269 MDYSAIPSVIFTHP-----BIAMVGLSLOAEQONLPAKLTGPFKAIGKAVALGAS 320

QY 162 --FANVNH-----IGGLSILDPFGVLSVLTALFQDVTVRKEMT 199  
Db 321 DGFAAIVSHBITQOILGAYVIGPHASSLIGEMTL-----AIRNELT 361

RESULT 22  
US-08-461-722-2  
; Sequence 2, Application US/08461722  
; Patent No. 6335183  
; GENERAL INFORMATION:  
; APPLICANT: Young, Richard A. and Young, Douglas  
; TITLE OF INVENTION: Stress Proteins and Uses Therefor  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: 2 Militia Drive  
; CITY: Lexington  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/461,722  
; FILING DATE: 05-JUNE-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/336,251  
; FILING DATE: 03-NOV-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/06362  
; FILING DATE: 06-JUN-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/073,381  
; FILING DATE: 04-JUN-1993  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/804,632  
; FILING DATE: 09-DEC-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/366,581  
; FILING DATE: 15-JUN-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/207,298  
; FILING DATE: 15-JUN-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US89/02619  
; FILING DATE: 15-JUN-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Granahan, Patricia  
; REGISTRATION NUMBER: 32,227  
; REFERENCE/DOCKET NUMBER: WHI88-08AFA4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 861-6240  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 547 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-461-722-2

Query Match 7.6%; Score 81.5; DB 4; Length 547;  
Best Local Similarity 20.4%; Pred. No. 1.6;  
Matches 48; Conservative 37; Mismatches 85; Indels 65; Gaps 10;  
QY 13 VAVSADPHYDKITEINKAIDDAI-AAIEQSEITDPKVPDHPADKFERHVGIVDFKGL 71  
DB 107 VAAGNPM-----DLKRGIDKAVTAAVEE---LKALSVPCSDSKAIAQVGTISANSDE 156  
QY 72 AMRNIEARGLKQMKQGDANVKGEBGIVKAHLIGVHDD---IVSMEYDLAYKLGDL--H 126  
DB 157 TVGKLIAEAMDKV-----GKEGVITVEDGTGLQDELVDVGMQFDRGYLSPYFINK 207  
QY 127 PTHVISIDQFVVALSLEISD-----EGNITMTSFEVRQ 161  
DB 208 PETGAVELESFILLADKKISNIREMLFVLEBAVAKAGKPLLIIAEDVEGEALATA----- 262  
QY 162 FANVNNHIGGL-----SILDPFGLVSLDVLTAIFQDVTVRKEMTKVLAFAFKRELEK 212  
DB 263 ---VNTIRGIVKVAAPGFG---DRRKAMLDIATLTGGTVISEIGNELEK 311

## RESULT 23

US-08-336-251-2  
; Sequence 21, Application US/08336251  
; Patent No. 6338952  
; GENERAL INFORMATION:  
; APPLICANT: Young, Richard S.  
; TITLE OF INVENTION: Stress Proteins and Uses Therefor  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: 2 Militia Drive  
; CITY: Lexington  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/336,251  
; FILING DATE: 03-NOV-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/06362  
; FILING DATE: 06-JUN-1993  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/073,381  
; FILING DATE: 04-JUN-1993  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/804,632  
; FILING DATE: 09-DEC-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/366,581  
; FILING DATE: 15-JUN-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/207,298  
; FILING DATE: 15-JUN-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US89/02619  
; FILING DATE: 15-JUN-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Granahan, Patricia  
; REGISTRATION NUMBER: 32,227  
; REFERENCE/DOCKET NUMBER: WHI88-08AP43  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 861-6240  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:

LENGTH: 547 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-336-251-2  
Query Match 7.6%; Score 81.5; DB 4; Length 547;  
Best Local Similarity 20.4%; Pred. No. 1.6;  
Matches 48; Conservative 37; Mismatches 85; Indels 65; Gaps 10;  
QY 13 VAVSADPHYDKITEINKAIDDAI-AAIEQSEITDPKVPDHPADKFERHVGIVDFKGL 71  
DB 107 VAAGNPM-----DLKRGIDKAVTAAVEE---LKALSVPCSDSKAIAQVGTISANSDE 156  
QY 72 AMRNIEARGLKQMKQGDANVKGEBGIVKAHLIGVHDD---IVSMEYDLAYKLGDL--H 126  
DB 157 TVGKLIAEAMDKV-----GKEGVITVEDGTGLQDELVDVGMQFDRGYLSPYFINK 207  
QY 127 PTHVISIDQFVVALSLEISD-----EGNITMTSFEVRQ 161  
DB 208 PETGAVELESFILLADKKISNIREMLFVLEBAVAKAGKPLLIIAEDVEGEALATA----- 262  
QY 162 FANVNNHIGGL-----SILDPFGLVSLDVLTAIFQDVTVRKEMTKVLAFAFKRELEK 212  
DB 263 ---VNTIRGIVKVAAPGFG---DRRKAMLDIATLTGGTVISEIGNELEK 311

## RESULT 24

US-09-468-041-2  
; Sequence 27, Application US/09468041  
; Patent No. 6482614  
; GENERAL INFORMATION:  
; APPLICANT: Young, Richard S.  
; TITLE OF INVENTION: Stress Proteins and Uses Therefor  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: 2 Militia Drive  
; CITY: Lexington  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/468,041  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/336,251  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/073,381  
; FILING DATE: 04-JUN-1993  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/804,632  
; FILING DATE: 09-DEC-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/366,581  
; FILING DATE: 15-JUN-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/207,298  
; FILING DATE: 15-JUN-1988  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US89/02619  
; FILING DATE: 15-JUN-1989  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Granahan, Patricia

```

; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: WHI88-08AFA3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 547 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-468-041-2

Query Match          7.6%; Score 81.5; DB 4; Length 547;
Best Local Similarity 20.4%; Pred. No. 1.6;
Matches 48; Conservative 37; Mismatches 85; Indels 65; Gaps 10;

Qy 13 VASADPIHYDKITEERINKAIDDAI-RAIEOSETIDPMKVPDHDADKEERHVGIVDFKGL 71
Db 107 VAAGNPM-----DLKRGIDKAVTRAABE--LKALSVPCSDSKAIAQVGTISANSDE 156

Qy 72 AMRNIARGLKQMKRQGDANVKGEGIVKAHLITGVHDD-----IVSMYEDLAYKGLDIL--H 126
Db 157 TVGKLIIAEAMDKV-----GKEGVIIVEDGTGLQDELVDWEGMQDFRGYLSPYFINK 207

Qy 127 PTHTVISDIQDFVVALSLEISD-----EGNITMTSFEVRQ 161
Db 208 PETCAVELESPFILLADKKISNIREMLPVLEAVAKAGKXPILLIIAEDVEGEALATA----- 262

Qy 162 FANVNVHIGGL-----SILDPIFGVLSDVLTAFQDVTVRKEMTKVLAPAFKRELEK 212
Db 263 ---VVNITRGIVKVAANKAPQFG---DPRKAMLODIATLTGGTIVSIBGIGLEK 311

```

RESULT 25  
PCT-US94-06362-2  
; Sequence 2, Application PC/TUS9406362  
; GENERAL INFORMATION:  
; APPLICANT:  
; APPLICANT:  
; TITLE OF INVENTION: Stress Proteins and Uses Therefor  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: 2 Militia Drive  
; CITY: Lexington  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US94/06362  
; FILING DATE: 06-JUN-1994  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/073,381  
; FILING DATE: 04-JUN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Granahan, Patricia  
; REGISTRATION NUMBER: 32,227  
; REFERENCE/DOCKET NUMBER: WHI88-08AFA2 PCT  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 861-6240  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 547 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
PCT-US94-06362-2

```

Query Match          7.6%; Score 81.5; DB 5; Length 547;
Best Local Similarity 20.4%; Pred. No. 1.6;
Matches 48; Conservative 37; Mismatches 85; Indels 65; Gaps 10;

Qy      13 VAVSADPIHYDKITEINKAIDDAI-AAIEQSETIDPMKVPDHADKFERRHVGIVDFKGEL 71
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      107 VAAGNFM-----DLRGKIDKANVAVEE--LKALSVPCSDSKATAQVGTISANSDE 156
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy      72 AMNIIEARGLQMKRGGDANVGERGIVKAHLIGVDD---IVSMGYDLAYKLGLD--H 126
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      157 TVGKLIAEAEMKV-----GKEGVITVEDGTQLQDELVDVEGMQFDRGYLSFYFINK 207
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy      127 PTHVTISDIQDFVALSLSEISD-----EGNITMTTSFEVRQ 161
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      208 PETGAVELSPFFILLADKKISINREMLPVLAEAVAKGPELLIIAEDVGEALATA---- 262
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

Qy      162 FANVVNHIGL-----SILDPITFGVUSDVLTALTFODTVKRKMTKVULAPAFKRELEK 212
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      263 ---VNTIRIGVAAVKAAPGF--DRRKAMLODIATLTGGTVTISEIGMELEK 311
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 26
US-08-467-822-32
; Sequence 32, Application US/08467822
; Patent NO. 5843460
; GENERAL INFORMATION:
; APPLICANT: Labigne, Agnes
; APPLICANT: Sauerbaum, Sebastien
; APPLICANT: Ferrero, Richard L.
; APPLICANT: Thiberge, Jean-Michel
; TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
; TITLE OF INVENTION: HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
; TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner,
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,822
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/432,697
; FILING DATE: 02-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 03495.0137-02000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 408-4000
; TELEFAX: (202) 408-4400
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 548 amino acids
; TYPE: amino acid
; STRANDEDNESS: single

```



```

; TITLE OF INVENTION:  HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE
; TITLE OF INVENTION:  COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
; TITLE OF INVENTION:  POLYPEPTIDES
; NUMBER OF SEQUENCES:  44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE:  Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE:  Dunner
; STREET:  1300 I Street, N.W.
; CITY:  Washington
; STATE:  D.C.
; COUNTRY:  USA
; ZIP:  20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE:  Floppy disk
; COMPUTER:  IBM PC compatible
; OPERATING SYSTEM:  PC-DOS/MS-DOS
; SOFTWARE:  PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER:  US/08/466,248
; FILING DATE:  06-JUN-1995
; CLASSIFICATION:  435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  US 08/447,177
; FILING DATE:  19-MAY-1995
; CLASSIFICATION:  435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:  US 08/432,697
; FILING DATE:  02-MAY-1995
; CLASSIFICATION:  435
; ATTORNEY/AGENT INFORMATION:
; NAME:  Meyers, Kenneth J.
; REGISTRATION NUMBER:  25,146
; REFERENCE/DOCKET NUMBER:  03495.0137-02000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE:  (202) 408-4000
; TELEFAX:  (202) 408-4400
; INFORMATION FOR SEQ ID NO:  32:
; SEQUENCE CHARACTERISTICS:
; LENGTH:  548 amino acids
; TYPE:  amino acid
; STRANDEDNESS:  single
; TOPOLOGY:  linear
; MOLECULE TYPE:  protein
;
US-08-466-248-32

```

```

Query Match          7.6%; Score 81.5; DB 3; Length 548;
Best Local Similarity 20.4%; Pred. No.1.6;
Matches 48; Conservative 37; Mismatches 85; Indels 65; Gaps 10;

QY 13 VAYSADPIHYDKITEEINKAIDDAI-AAIEQSEITDPMKVPDHDADKPERHVGVIFDXGEL 71
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 107 VAAGMPEV-----DLKRGIDKAVTAABE---LKALSVFCSKSAIAQVGTISANDE 156

QY 72 AMRNIEARGHLKQMKRQGDANVKGEEGIVKAHLLIGVHDD--IVSMYDYDAYKLGDL--H 126
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 157 TVGKLIIAEAMDKV-----GREGVITVEDGTGLQDELDDVVBMGFDRGYLSPYFINK 207

QY 127 PTHVHISDIODFVVALSLEISD-----EGNITMTSPFVRQ 161
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 208 PETCAVELESPFILLADKKISNIREMPLVEAVAKAGKPLIIIAEDVEGALATA----- 262

QY 162 FANVNVHIGL-----SILDPIFGVLSVLTAFIQTDTVRKENTKVLAPAFKRELEK 212

Db 263 ----VNVNTRIGVKAAYKAPGFG---DERRKAMLODIATLTGGTIVISBEIGNELEK 311

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RESULT 30  
US-09-570-778A-12  
; Sequence 12, Application US/09570778A  
; Patent No. 6468773  
; GENERAL INFORMATION:  
; APPLICANT: Trimbur, Donald E.  
; APPLICANT: Whited, Gregory M.

```

; APPLICANT: Selifonova, Olga V.
; TITLE OF INVENTION: Mutant 1,3-Propanediol Dehydrogenase
; FILE REFERENCE: GC580-2
; CURRENT APPLICATION NUMBER: US/09/570,778A
; CURRENT FILING DATE: 2000-05-14
; PRIOR APPLICATION NUMBER: US 60/134,868
; PRIOR FILING DATE: 1999-05-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 385
; TYPE: PRT
; ORGANISM: Clostridium pasteurianum
; US-09-570-778A-12

```

Query March		7.68;	Score 81;	DB 4;	Length 385;
Best Local Similarity		23.8%;	Pred. No. 1.1;		
Matches 48;	Conservative	39;	Mismatches	71;	Indels 44; Gaps 10
Qy	2	MKFLIIAAVAVSA--DPHYDKITEINKA--IDDAIAAEQSETIDPMKVDPHADKF	58		
		:	:	:	:
Db	161	IKFVIVSRNLPLVSINDPILMIKKPAGLTAATGMDALTHAESVSKDANPTVD----	215		
		:	:	:	:
Qy	59	ERHVGIVDFKGELARNIE--ARGLKQMKQGDNVKGEGIVKAHLIIGVHDDIVSNEY	116		
		:	:	:	:
Db	216	-----ALAIQAUKLTANNLRQVAALGE-NLEARENMAVASLAGMAFNANILGY	263		
		:	:	:	:
Qy	117	--DLAYKLGDLPHTTHVISDIQDFWALSLEISDEGNITWTSPFVRQFANVVVNHI	170		
		: :: :	:	:	:
Db	264	VHAMAHQLGGIDYMAHGVAN-----AMLLPHVERYNLSNP---KKFPADIAEFMGENIE	314		
		: :: :	:	:	:
Qy	171	GLSI-----LDPIFGVLSDV	185		
		:	:	:	:
Db	315	GLSVWEAAEAKAIDAMFRLSKDVI	336		

```

RESULT 31
US-09-991-138-12
Sequence 12, Application US/09991138
Patent NO. 6558933
GENERAL INFORMATION:
APPLICANT: Trimbur, Donald E.
APPLICANT: Whited, Gregory M.
APPLICANT: Selifonova, Olga V.
TITLE OF INVENTION: Mutant 1,3-Propanediol Dehydrogenase
FILE REFERENCE: GC580-2D1
CURRENT APPLICATION NUMBER: US/09/991,138
CURRENT FILING DATE: 2001-11-16
PRIORITY APPLICATION NUMBER: US 09/570,778
PRIOR FILING DATE: 2000-05-14
PRIORITY APPLICATION NUMBER: US 60/134,868
PRIOR FILING DATE: 1999-05-19
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 12
LENGTH: 385
TYPE: PRT
ORGANISM: Clostridium pasteurianum
US-09-991-138-12

```

```

Query Match      7.6%; Score 81; DB 4; Length 385;
Best Local Similarity 23.8%; Pred.No 1.1;
Matches 48; Conservative 39; Mismatches 71; Indels 44; Gaps 10;

Qy    2 MKELLTAAVAFVAVSA--DPHYDKITEEINKA--IDDAIAAEIOSEWIDPMKVPDHDADP 58
       :|:::| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db   161 IKFVIWSVRNLPLVSINDPIIMTKKPAGLTAATGMDALTAIESYVKDANFVTD----- 215

Qy    59 ERHVGIVDFKGELAMRNIE--ARGLKOMQGQGANVKGEIGIKAHLLIGVHDDIVSMEX 116
       :|:::| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db   216 -----ALAIQAUKLIANNLRQAVALGE-NLEARENMAVASLLAGNAFNANLGI 263

Qy   117 --DLAYKLGDLHPHTTHVISDIODFPVALSLEISDEGNITMTSFVEIROFANVVNHIG--- 170

```

264 VHAMAHOICGYDMAHGVA-----AMLPHERYNIISNP---KKFADIAERGENIE 314

171 GLSI-----LDPIFGVLSDV 185

Db 315 GLSVMEAAEKAIDAMFRLSKDV 336

RESULT 32

```

US-09-673-395A-561
; Sequence 561, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
; FILE REFERENCE: ALERE-12
; CURRENT APPLICATION NUMBER: US/09/673,395A
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 561
; LENGTH: 470
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-673-395A-561

```

Query Match	7.6%	Score 81;	DB 4;	Length 470;
Best Local Similarity	22.9%	Pred. No. 1.4;		
Matches	36;	Conservative	29;	Mismatches 56;
				Indels 36;
				Gaps 8;

  

QY	15	VSADPIHYDKITEIN	KAIDDAIAIEQSE	TIIDPMKVPHAD	-KPERHVGIV	----	DFKGE	70
		::	::	::	::	::	::	
		::	::	::	::	::	::	
Db	246	VSAEKVNK	---THSVNGIT	EEADPTIYSGVIR	PLRSVDP	QTQTEYGG	MEIIVEEGDMKE	302
		::	::	::	::	::	::	
		::	::	::	::	::	::	
QY	71	LAMRNIEARGLKQMK	QGDANVKGEEGIV	KAHLLIGVHDD	DIIVSMEYDLA	-----		119
		::	::	::	::	::	::	
		::	::	::	::	::	::	
Db	303	-----VVPFGTGV	WANKGDGCI	OKGES	---VKFOLCV	-LGONAO	TMAVNTPLPRATVECVK	354
		::	::	::	::	::	::	
		::	::	::	::	::	::	

```

QY 120 -----YKLGDLHPHTTHVISDIOFVVALSLEISDE 149
      |::|| :::|| :::|| :::||
Db 355 DOFGTNEYGDSKLFVKEVOD---GIELAAGDE 388

```

RESULT 33

US-09-107-532A-4950  
Sequence 4950, Application US/09107532A  
Patent No. 6583275  
GENERAL INFORMATION:  
APPLICANT: Lynn A Doucette-Stamm and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD/ROM ISO9660  
COMPUTER: PC  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,532A  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:

Db 161 TVGKLIAMDKV-----GKEGVITVEDSTGLBEDELVDVEGMQDFRGYLSYPFINK 211  
Qy 121 -----KLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFEV 159  
Db 212 PDTCAVELESFILLADKKISNIEEMLPVLEAVAKAGKPIVITAEDVEGEALATL-----266  
Qy 160 ROPANVNHGGL-----SILDPIGVLSVDVLTAFQDVTVRKEMTKVLAPAFKSELEK 212  
Db 267 -----VNTVRGIVKVAAPKAPGFG---DRRKAMLODIATLTGTGTISEIGMELEK 315

RESULT 35  
US-09-252-991A-19476  
; Sequence 19476, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 19476  
; LENGTH: 538  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-19476

Query Match 7.5%; Score 80.5; DB 4; Length 538;  
Best Local Similarity 21.6%; Pred. No. 2;  
Matches 44; Conservative 34; Mismatches 53; Indels 73; Gaps 11;

Qy 17 ADPIH---YD---KITEINKAIDDAIAAEQSETIDPMKVPDPHADKFERHVGIVDFKGE 70  
Db 196 ADRIHOLAPDGA VEVHVDVRRALD-----PAHGG-----AGGVGIAGE 233  
Qy 71 LAMRN-----IEARGLQMKRQGDANVKGEGIVKAHLLIGVHDDIVSMYDYLAYKLGDLH 126  
Db 234 LLLQDQVEFLQRRLGEGVQR-GDA-----QDDIQAHLV-----EMAEHLGGL- 275  
Qy 127 PTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVNHGGLSILDPFGVLSVIL 186  
Db 276 -----VGIEVGDHGDLDLVF-----VTDVHGCTRLHPLQAVQA-AG 312  
Qy 187 TAFQDVTVRKEMTKVLAPAFKREL 210  
Db 313 AAAEEDAVDQVGLVLAEGIGEHL 336

RESULT 36  
US-09-252-991A-26608  
; Sequence 26608, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 26608  
; LENGTH: 1504  
; TYPE: PRT

Db 161 TVGKLIAMDKV-----GKEGVITVEDSTGLBEDELVDVEGMQDFRGYLSYPFINK 211  
Qy 121 -----KLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFEV 159  
Db 212 PDTCAVELESFILLADKKISNIEEMLPVLEAVAKAGKPIVITAEDVEGEALATL-----266  
Qy 160 ROPANVNHGGL-----SILDPIGVLSVDVLTAFQDVTVRKEMTKVLAPAFKSELEK 212  
Db 267 -----VNTVRGIVKVAAPKAPGFG---DRRKAMLODIATLTGTGTISEIGMELEK 315

RESULT 35  
US-09-252-991A-19476  
; Sequence 19476, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 19476  
; LENGTH: 538  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-19476

Query Match 7.5%; Score 80.5; DB 4; Length 538;  
Best Local Similarity 21.6%; Pred. No. 2;  
Matches 44; Conservative 34; Mismatches 53; Indels 73; Gaps 11;

Qy 17 ADPIH---YD---KITEINKAIDDAIAAEQSETIDPMKVPDPHADKFERHVGIVDFKGE 70  
Db 196 ADRIHOLAPDGA VEVHVDVRRALD-----PAHGG-----AGGVGIAGE 233  
Qy 71 LAMRN-----IEARGLQMKRQGDANVKGEGIVKAHLLIGVHDDIVSMYDYLAYKLGDLH 126  
Db 234 LLLQDQVEFLQRRLGEGVQR-GDA-----QDDIQAHLV-----EMAEHLGGL- 275  
Qy 127 PTHVISDIQDFVVALSLEISDEGNITMTSFEVRQFANVNHGGLSILDPFGVLSVIL 186  
Db 276 -----VGIEVGDHGDLDLVF-----VTDVHGCTRLHPLQAVQA-AG 312  
Qy 187 TAFQDVTVRKEMTKVLAPAFKREL 210  
Db 313 AAAEEDAVDQVGLVLAEGIGEHL 336

RESULT 36  
US-09-252-991A-26608  
; Sequence 26608, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 26608  
; LENGTH: 1504  
; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-26608

Query Match 7.5%; Score 80; DB 4; Length 1504;  
Best Local Similarity 21.1%; Pred. No. 11;  
Matches 39; Conservative 30; Mismatches 46; Indels 70; Gaps 10;

Qy 6 LIAAVAFVAVSADPIHYDKITETINKAIDDAIAAEQSETIDPMKVPDPHADKFERHVGIV 65  
Db 421 LIAALHAHAIGA-----AGEDLRQVVGEPADVVRDRHV-----VVEDE-----CHVG-V 464  
Qy 66 DFKGEL-----AMRNIEARG-----LKQMKRQGDANVKG-----BEGIV-----99  
Db 465 DFRGVVECLEGHAGQORTVADHGHLRLTLALQAGDGHAGGAGGAGVADAEVVALC 524  
Qy 100 -----KAHLLIGVHDDIVSMYDYLAYKLGDLHPTTHVISDIQDFVVALSLEI 146  
Db 525 AAREGRQAVLLAQAHAQLAALGEDLV-----RIG-----LVADVPQAVVRSVED 569  
Qy 147 SDEGN 151  
Db 570 VVQGN 574

RESULT 37  
US-09-561-818A-12  
; Sequence 12, Application US/09561818A  
; Patent No. 6638907  
; GENERAL INFORMATION:  
; APPLICANT: Kortessmaa, Jarkko  
; TITLE OF INVENTION: Laminin 8 and Methods For Its Use  
; FILE REFERENCE: 99,274-D  
; CURRENT APPLICATION NUMBER: US/09/561,818A  
; CURRENT FILING DATE: 2000-04-28  
; NUMBER OF SEQ ID NOS: 28  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 12  
; LENGTH: 1792  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-561-818A-12

Query Match 7.5%; Score 80; DB 4; Length 1792;  
Best Local Similarity 21.3%; Pred. No. 14;  
Matches 44; Conservative 39; Mismatches 90; Indels 34; Gaps 9;

Qy 25 ITTEINKAIDDAIAAEQSETIDPMKVPDPHADKFERHVGIVDFKGE LAMRNIEARGLQK 84  
Db 457 LQESINQALDHVRDAEDMNRAI-TFKQRDHEKQHERVKEQWVVGASLSMSADS LTIPTQL 515  
Qy 85 K-RQGDANVKGEGIVKAHLLIGVHDDIVSMYDYLAYKLGDLHPTTH-VISDIQDFVAL 142  
Db 516 TLEELDEILKNASGI-----YAEIDGAKNELQGLSNLSNLSHDLVQEATDHAYNL 566  
Qy 143 -----SLEISDEGNITMTSFEVRQ-FANVNVNHIG-----GLSILDPFGVLS 184  
Db 567 QOEADLSRNLSHSDMGLVQKALDASNVTANYSEANETAELALNITDRIDYAVSG 626  
Qy 185 VLTAFQDVTVRKEMTKVLAPAFKRELE 211  
Db 627 IDTQIIYH--KDESDNLLNQA--RELQ 649

RESULT 38  
US-09-561-818A-10  
; Sequence 10, Application US/09561818A  
; Patent No. 6638907  
; GENERAL INFORMATION:  
; APPLICANT: Kortessmaa, Jarkko  
; TITLE OF INVENTION: Laminin 8 and Methods For Its Use  
; FILE REFERENCE: 99,274-D

; CURRENT APPLICATION NUMBER: US/09/561,818A  
 ; CURRENT FILING DATE: 2000-04-28  
 ; NUMBER OF SEQ ID NOS: 28  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 10  
 ; LENGTH: 1816  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 US-09-561-818A-10

Query Match	7.5%	Score 80;	DB 4;	Length 1816;
Best Local Similarity	21.3%;	Prd. No.15;		
Matches	44;	Conservative	39;	Mismatches 90; Indels 34; Gaps 9;
QY	25	ITEINKAIDATAAIEBQS	TDIPMKVPDPAKDFE	HVGVDFKGLAARNIEARGLKQM 84
DB	481	LOESINQALDHVRDAED	MNPAI-TFQRDEKH	EEVKEQMEVVGASLSMSADSITIPQL 539
QY	85	K-RGQDANVKGEGIVKA	HLIGVDDIVSMEMYD	LAYKLGDLHPTH-VISDIOFVVAL 142
DB	540	TLEELDEIINKASGI-	-----YAEIDGAKNE	LQGLSNLSNLSHDLVQEAIDTHAYNL 590
QY	143	-----SLETSGE	GNITMTSFVREQ-FANV	VAHIG-----GLSILDPFGVLSD 184
DB	591	QQEADLSRLNHSSDM	GNIGVQKALDASNYEN	IANYVSEANETAEALNITRIDYAVSG 650
QY	185	VILTAIFQDTRKEMTKV	LAPAFKRELE 211	
DB	651	IDTOIIYH--KDES	DNLLNQA--RELQ 673	

RESULT 39  
 US-08-336-618-24  
 ; Sequence 24, Application US/08336618  
 ; Patent No. 5763590  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Peattie, Debra A.  
 ; APPLICANT: Harding, Matthew W.  
 ; APPLICANT: Livingston, David J.  
 ; TITLE OF INVENTION: ISOLATION OF AN Mr 52,000 FK506 BINDING  
 ; TITLE OF INVENTION: PROTEIN AND MOLECULAR CLONING OF A CORRESPONDING HUMAN  
 ; TITLE OF INVENTION: CDNA  
 ; NUMBER OF SEQUENCES: 32  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Hamilton, Brook, Smith and Reynolds, P.C.  
 ; STREET: Two Millitia Drive  
 ; CITY: Lexington  
 ; STATE: Massachusetts  
 ; COUNTRY: U.S.A.  
 ; ZIP: 02173  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/336,618  
 ; FILING DATE: 09-NOV-1994  
 ; CLASSIFICATION: 435  
 ; PRIORITY APPLICATION DATA:  
 ; APPLICATION NUMBER: 07/963,325  
 ; FILING DATE: 18-OCT-1992  
 ; APPLICATION NUMBER: US 07/777,752  
 ; FILING DATE: 11-OCT-1991  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/  
 ; FILING DATE: 09-OCT-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Granahan, Patricia  
 ; REGISTRATION NUMBER: 32,227  
 ; REFERENCE/DOCKET NUMBER: VP191-06A  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 617-861-6240

```

? TELEFAX: 617-861-9540      24:
? INFORMATION FOR SEQ ID NO:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 458 amino acids
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE: protein
US-08-136-618-24

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Query Match	7.4%;	Score 79.5;	DB 1;	Length 458;
Best Local Similarity	22.1%;	Pred. No. 2;		
Matches	29;	Conservative	29;	Mismatches 49;
			Indels	17; Gaps 3;
18 DPHYKITEINKAIDDAIAALEQSEII-----DPMKVPDHAD-KFERHV	62			
18	:	:	:	:
75 DKFSFDLKGGEIVAKWADIATAMKVGELCRITCKEYAYGAGSPKIPFNATLVFE--V	132			
75	:	:	:	:
63 GIYDVFGEELAMRNIEARGLKQMKROGDANVKGEIGIVKAHLILGVHDDIVSMEYDLAYKL	122			
63	:	:	:	:
133 ELPEFGKEDLTDDGQITRIETRGEGYARENDGAIIVEVALEGYKDRFLDQRELAFEV	192			
133	:	:	:	:
123 GD 124				
123	:	:	:	:
193 GE 194				
193	:	:	:	:

```

RESULT 40
US-09-543-681A-6606
; Sequence 6606, Application US/09543681A
; Patent NO. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SE
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709-1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 6606
; LENGTH: 557
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-6606

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Query Match	7.4%;	Score 79.5;	DB 4;	Length 557;
Best Local Similarity	17.7%;	Pred. No. 2.8;		
Matches	42;	Conservative	46;	Mismatches 80; Indels 59; Gaps 9;
QY	13	VASADPIHYDKITEEINKAIDDA-IAAJEQSETIDPMKVPDHAKFERHHVCIUDFKGEL	71	
DB	116	VAAAGNPM-----DLGRGDZAVVGAEE--LKKLSPCSDTKAJAQVGTISANSDE	165	
QY	72	AMRNIEARGLKQMKRGDANVKVEEGEIVKAHLIGVHDD---IVSMEXDLAY-----	120	
DB	166	TGVTLLAQAMEKV-----GKEGVIITVEEGTGLEDELDVVEGQMQRDGYLSFYFINK	216	
QY	121	-----KLGDHPHTHVISDIQDFWALSLEISDEGNITMTSPEV	159	
DB	217	PETGTAELENPFLLVDKKVSNIRELLFVLEGVAKANKPLLIADSDVGEALATI-----	271	
QY	150	RQFANVNVNHLGL-----SILDPFGVLSVLTAIFQDVTVRKMTKVLAFAFKRELEK	212	
DB	272	-----VYNNWEGIVKVAAYVZAPFG-----RRKAMTQDIALLINGVIVSEBIGMELEK	320	

RESULT 41  
US-08-094-889-1  
; Sequence 1, Application US/08094889  
; Patent No. 5470966  
; GENERAL INFORMATION:  
; APPLICANT: Shinji HIRANO et al.





```
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
PRIOR FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 32411
LENGTH: 593
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32411

Query Match
Best Local Similarity 23.6%; Pred. No. 3.5;
Matches 37; Conservative 25; Mismatches 59; Indels 36; Gaps 7;

QY 38 AAIEQSETIDPMKVPD-----HADKPERHV-GIVDFKGLAMRNIEARGLKQMKRQ 87
Db 64 AAVEQAGAGEQFVVDGFFLEVPVAGGQVEHAPGVVAADQAAADGPVVRGRG-----EGQ 119
QY 88 GDANYKGBEGIV-----KAHLIGVHDDIVSMYDLYAYKLGDLHPHVVISDIQDFVVA 141
Db 120 GDFRQEGREGLLVITQTRRQHRVAALDAIL-----LVAQAGGQGP-----VAQ 164
QY 142 LSLEISDSGNITMTSFVRQFANVNNHIG-GLSILDP 177
Db 165 AVVQLAETVELRVVEGRQFPAQVQCLVAGAGVDDP 201

RESULT 44
US-09-252-991A-23008
Sequence 23008, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 23008
LENGTH: 768
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23008

Query Match
Best Local Similarity 23.6%; Pred. No. 5.1;
Matches 35; Conservative 27; Mismatches 60; Indels 26; Gaps 7;

QY 61 HVG-IVDFKGLAMRNIEARGLKQMKRQ--DANKVGEIVKAHLIGVHDDIVSMYD 117
Db 585 HLGVRVLEIVQVLLGNAENLDDVLAEVCAVDQQAAPGRLO-RLEIGMMENLVHRAE 643
QY 118 LAYKLGDLHPHVVISDIQDFVVALSLEISDEGNITMTSFVRQFANVNNHIGLSILDP 177
Db 644 LGVDLGD-HPVDHRL--LHRLAVLRLE-----QFLDE-----GGDAALGD 681
QY 178 IFGVLSDDLTAIFQDTPVRKEMTKVLA 205
Db 682 VVGLVVRAQAGLGDADAVENVVFAVLVPA 709
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RESULT 45
US-09-134-000C-3522
Sequence 3522, Application US/09134000C
Patent No. 6617156
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 032796-032
CURRENT APPLICATION NUMBER: US/09/134,000C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR FILING DATE: 1997-08-15
NUMBER OF SEQ ID NOS: 6812
SOFTWARE: Patent in version 3.1
SEQ ID NO 3522
LENGTH: 166
TYPE: PRT
ORGANISM: Enterococcus faecalis
US-09-134-000C-3522

Query Match
Best Local Similarity 28.4%; Pred. No. 0.56;
Matches 54; Conservative 30; Mismatches 61; Indels 45; Gaps 13;

QY 38 AAIEQSETIDPMKVPDHADKFE--RHVGIVDFKGLAMRNIEARGLKQMKRQGDANYKE 95
Db 4 AAIKKEH-----VQAAAEKESAAASVVIVDYG--LTVEEVNLRKQLA--DAGV--E 52
QY 96 EGIVKAHL-----IGVH--DDIVSMYDLYAYKLGDLHPHVVISDI-QDFVVALSLEI 146
Db 53 MKVIRKNSILSRAAKKVGDLDEVTGTAVAFSNDVDYAFKIDEPKQ---AKALEI 109
QY 147 SD---EGNITMTSFVRQFANVNNHIGLSILDPITFGVLSVDLTAIFQDTPVRKEMTKVLA 203
Db 110 KGVIEGKVSS-----VEQITAKLAPNREGVLS-MLLSVLQAPVRN-----VA 152
QY 204 PAFKRELEKN 213
Db 153 YAVKAVAENK 162

RESULT 46
US-09-134-000C-6150
Sequence 6150, Application US/09134000C
Patent No. 6617156
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 032796-032
CURRENT APPLICATION NUMBER: US/09/134,000C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/055,778
PRIOR FILING DATE: 1997-08-15
NUMBER OF SEQ ID NOS: 6812
SOFTWARE: Patent in version 3.1
SEQ ID NO 6150
LENGTH: 437
TYPE: PRT
ORGANISM: Enterococcus faecalis
US-09-134-000C-6150

Query Match
Best Local Similarity 21.7%; Pred. No. 2.5;
Matches 52; Conservative 38; Mismatches 85; Indels 65; Gaps 11;

QY 5 LLTAAVAFVAVSADPHYDKITEINKAIDDAIAAEQSETIDPMKVPDHADKFERHVG- 63
Db 80 LVIGMEATSLYSPHPAMFFKDELELNQL--NLMSVEQ-----PNKIKKYRDIFFENKND 132
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QY 64 -----IVDPKGLAMENIARGLKQMKRQGDANVKGEIGIVKAHLIGHVDDIVSMYD 117  
Db 133 QIDAFYADY-----PRIORQNSIIKEEYIALQHL-----TRTRYQ 170  
QY 118 LAYKGLDHPHTHVISDIQDFWALSLEISDEGNITWTS-----FEVR 160  
Db 171 LIKQL--VRTKQHFENIYKCNLTSLKELKAGGVSLSATLVLTMTEDYTMQDLALSLE 228  
QY 161 QFANVNHIGGLSILDP--IFGVLSVLT-----IFQDVTVRKEMTKVLAPAFKRE 212  
Db 229 EFANLIQKGYRFPKNPEGIAKAIKSRSSYRLGKVHODSV-DIVLGVLAKEI-RSLEK 286

## RESULT 47

US-09-040-843-4  
; Sequence 4, Application US/09040843  
; Patent No. 6124119  
; GENERAL INFORMATION:  
; APPLICANT: Jaworski, Deborah J.  
; APPLICANT: Wang, Min  
; APPLICANT: Shilling, Lisa K.  
; APPLICANT: Burnham, Martin  
; APPLICANT: Fosberry, Andrew  
; APPLICANT: Hodgson, John E.  
; APPLICANT: Lawlor, Elizabeth  
; APPLICANT: Rosenberg, Martin  
; APPLICANT: Ward, Judith  
; TITLE OF INVENTION: Mecb  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Dechert, Price & Rhoads  
; STREET: 4000 Bell Atlantic Tower, 1717 Arch Stre  
; CITY: Philadelphia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19103-2793  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: FastSEQ for Windows Version 2.0b  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/040,843  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/057,535  
; FILING DATE: 29-AUG-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Falk, Stephen T  
; REGISTRATION NUMBER: 36,795  
; REFERENCE/DOCKET NUMBER: GM10082  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 215-994-2488  
; TELEFAX: 215-994-2222  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 672 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

US-09-040-843-4

Query Match 7.4%; Score 78.5; DB 3; Length 672;  
Best Local Similarity 22.6%; Pred. No. 4.8;  
Matches 49; Conservative 37; Mismatches 86; Indels 45; Gaps 11;

QY 18 DPHYDKITEE-----INKAIDDAIAAQSEETIDPMKVPDHADKFERHVGIVDPKGELA 72  
Db 358 DTLHERVIGQKDAVNSISKAVRRAGLK-----DP-----KRPIGSFIFLGPTG 402  
QY 73 MRNIE-ARGL-KQMKRQGDANVKGE-EGIVKAHL-----LIGV-----HDDIVSMYDILAY 120

Db 403 VGKTELARALAESMGDDAMIRVDMSEMEKHAVSRVLVGAPPGVVGHDGQQLTEKYR 462  
QY 121 KLGDLHPHTHVISD-----IQDFVVALSLEISDEGNITWTSFEVROFANVV-----NHIGGL 172  
Db 463 K-----PYSVLFDIEKHAHPDVFNILLQVLDGGLHLDTKGRTVDFRNTIIIMTSNVGAQ 517  
QY 173 SILDPFIFGVLSVLTAFQDVTVRKEMTKVLAPAFKRE 209  
Db 518 ELQDQRFAGGSGSDQDYETIRKTMKELKNSFRPE 554

## RESULT 48

US-09-621-855-4  
; Sequence 4, Application US/09621855  
; Patent No. 6346608  
; GENERAL INFORMATION:  
; APPLICANT: Jaworski, Deborah J.  
; APPLICANT: Wang, Min  
; APPLICANT: Shilling, Lisa K.  
; APPLICANT: Burnham, Martin  
; APPLICANT: Fosberry, Andrew  
; APPLICANT: Hodgson, John E.  
; APPLICANT: Lawlor, Elizabeth  
; APPLICANT: Rosenberg, Martin  
; APPLICANT: Ward, Judith  
; TITLE OF INVENTION: Mecb  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Dechert, Price & Rhoads  
; STREET: 4000 Bell Atlantic Tower, 1717 Arch Stre  
; CITY: Philadelphia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19103-2793  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: FastSEQ for Windows Version 2.0b  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/621,855  
; FILING DATE: 24-Jul-2000  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/040,843  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Falk, Stephen T  
; REGISTRATION NUMBER: 36,795  
; REFERENCE/DOCKET NUMBER: GM10082  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 215-994-2488  
; TELEFAX: 215-994-2222  
; TELEX: <Unknown>  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 672 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:

US-09-621-855-4

Query Match 7.4%; Score 78.5; DB 4; Length 672;  
Best Local Similarity 22.6%; Pred. No. 4.8;  
Matches 49; Conservative 37; Mismatches 86; Indels 45; Gaps 11;

QY 18 DPHYDKITEE-----INKAIDDAIAAQSEETIDPMKVPDHADKFERHVGIVDPKGELA 72  
Db 358 DTLHERVIGQKDAVNSISKAVRRAGLK-----DP-----KRPIGSFIFLGPTG 402  
QY 73 MRNIE-ARGL-KQMKRQGDANVKGE-EGIVKAHL-----LIGV-----HDDIVSMYDILAY 120

Db 549 VGKTELARALAESMFGDDAMIRVDMSEFMKHAUSRLVGPYGVHDDGGQLTQKVR 608  
 QY 121 KLGLDHPHTHVISD-----IQDFVVALSLEISDEGNITMTSFEVRQFANVV-----NHIGGL 172  
 Db 609 K-----PYSVILFDEIEKAHPDVFNILLQVLDGHLTDTKGRTVDFRNTIIIMTSNVGAQ 663  
 QY 173 SILDPFGLVSDVLTAFQDVTVRKEMTKVLAPAFKRE 209  
 Db 664 ELQDRFAGFGSSDGDQDYETIRKTKMLKELKNSFRPE 700

RESULT 50

US-09-621-855-2  
 ; Sequence 2, Application US/09621855  
 ; Patent No. 6346608  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jaworski, Deborah J.

Wang, Min  
 Shilling, Lisa K.  
 Burnham, Martin  
 Rosberry, Andrew  
 Hodgson, John E.  
 Lawlor, Elizabeth  
 Rosenberg, Martin  
 Ward, Judith  
 TITLE OF INVENTION: MecB  
 NUMBER OF SEQUENCES: 6  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Dechert, Price & Rhoads  
 STREET: 4000 Bell Atlantic Tower, 1717 Arch Stre  
 CITY: Philadelphia  
 STATE: PA  
 COUNTRY: USA  
 ZIP: 19103-2793

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: Windows 95  
 SOFTWARE: FastSEQ for Windows Version 2.0b  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/621,855  
 FILING DATE: 24-Jul-2000  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 09/040,843  
 FILING DATE: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Falk, Stephen T  
 REGISTRATION NUMBER: 36,795  
 REFERENCE/DOCKET NUMBER: GM10082  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 215-994-2488  
 TELEFAX: 215-994-2222  
 TELEX: <Unknown>  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 866 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
 US-09-621-855-2

Query Match 7.4%; Score 78.5; DB 4; Length 866;  
 Best Local Similarity 22.6%; Pred. No. 7;  
 Matches 49; Conservative 37; Mismatches 86; Indels 45; Gaps 11;  
 QY 18 DPHYDKITEE-----INKAIDATAAEQSTIDPMKVPDHDADKFERHVGIVDFKGLA 72  
 Db 504 DTLHERVIGQDAVNSISKAVRARAGLK-----DP-----KRPISGFIPLGPTG 548  
 QY 73 MRNIE-ARGL-KOMKQGDANVKGE-EGIVKAHL---LIGV-----HDDIVSMEYDLAY 120

Db 403 VGKTELARALAESMFGDDAMIRVDMSEFMKHAUSRLVGPYGVHDDGGQLTQKVR 462  
 QY 121 KLGLDHPHTHVISD-----IQDFVVALSLEISDEGNITMTSFEVRQFANVV-----NHIGGL 172  
 Db 463 K-----PYSVILFDEIEKAHPDVFNILLQVLDGHLTDTKGRTVDFRNTIIIMTSNVGAQ 517  
 QY 173 SILDPFGLVSDVLTAFQDVTVRKEMTKVLAPAFKRE 209  
 Db 518 ELQDRFAGFGSSDGDQDYETIRKTKMLKELKNSFRPE 554

RESULT 49

US-09-040-843-2  
 ; Sequence 2, Application US/09040843  
 ; Patent No. 6124119  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jaworski, Deborah J.

Wang, Min  
 Shilling, Lisa K.  
 Burnham, Martin  
 Rosberry, Andrew  
 Hodgson, John E.  
 Lawlor, Elizabeth  
 Rosenberg, Martin  
 Ward, Judith  
 TITLE OF INVENTION: MecB  
 NUMBER OF SEQUENCES: 6  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Dechert, Price & Rhoads  
 STREET: 4000 Bell Atlantic Tower, 1717 Arch Stre  
 CITY: Philadelphia  
 STATE: PA  
 COUNTRY: USA  
 ZIP: 19103-2793

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: Windows 95  
 SOFTWARE: FastSEQ for Windows Version 2.0b  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/040,843  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 60/057,535  
 FILING DATE: 29-AUG-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Falk, Stephen T  
 REGISTRATION NUMBER: 36,795  
 REFERENCE/DOCKET NUMBER: GM10082  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 215-994-2488  
 TELEFAX: 215-994-2222  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 866 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 US-09-040-843-2

Query Match 7.4%; Score 78.5; DB 3; Length 866;  
 Best Local Similarity 22.6%; Pred. No. 7;  
 Matches 49; Conservative 37; Mismatches 86; Indels 45; Gaps 11;  
 QY 18 DPHYDKITEE-----INKAIDATAAEQSTIDPMKVPDHDADKFERHVGIVDFKGLA 72  
 Db 504 DTLHERVIGQDAVNSISKAVRARAGLK-----DP-----KRPISGFIPLGPTG 548  
 QY 73 MRNIE-ARGL-KOMKQGDANVKGE-EGIVKAHL---LIGV-----HDDIVSMEYDLAY 120

Db 549 VKTELALAESEMGDDAMIRVDMSEFMKEHVASLVCAPGCVGHDDGGQGLTEKVR 508  
QY 121 KGLDLHPHTHVISD-----IQFVVVLSLEISDEGNITMTSFVRQFANVV-----NHIGGL 172  
Db 609 K-----PYSVILFDEIEKAHPDVENILLQVLDGCHLTDTKGRTVDFRNTIIMTSNVGAQ 663  
QY 173 SILQPIRGVLSVLTAFQDVRKEMTKVLAPAFKE 209  
Db 664 ELQQRFAFGSGSGDQDYETIRKTMKELNSFRPE 700  
RESULT 51  
US-09-489-039A-7682  
; Sequence 7682, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; FILE REFERENCE: 2709.2004001  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 7682  
; LENGTH: 511  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-7682  
Query Match 7.3%; Score 78; DB 4; Length 511;  
Best Local Similarity 21.2%; Pred. No. 3.6; Indels 54; Gaps 11;  
Matches 45; Conservative 38; Mismatches 75;  
QY 18 DPHYD-KIT---EEINKAIDDAIAAEQSETIDPMKVPDPHADKFERHVGIVDPFGELA 72  
Db 14 DPHICTIRLTLEIASINHPFQRLNLIKNSFLYKVPFSAVSRPEHSLGVLHLSSEI- 72  
QY 73 MNIEARGLKQKRGDANVKG-----EGIVKAHLIGVHD---DIVSMEYDL---A 119  
Db 73 LNNLRINAIRYQKYDDGHVGHIDQIPKNIQELRLAALMHDHGHGVPVSHGFESFMPGK 132  
QY 120 YKGLDHPHTT-HVISDI-----QDFVVVLSL-----EISDEGNITMTSFE 158  
Db 133 HEFSDVLPFAYHSIIDVLVSKEQKVEHEQLSLFLSLMIYHDLRQKGVDDDEINI----- 186  
QY 159 VRQFANVANH-----GGLSILDPFGVLSVVL 186  
Db 187 -----ENVLKIERYGDOQOIEEINGKATDIL 214  
RESULT 52  
US-09-252-991A-19045  
; Sequence 19045, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 19045  
; LENGTH: 516  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-19045

Query Match 7.3%; Score 78; DB 4; Length 516;  
Best Local Similarity 25.4%; Pred. No. 3.6; Indels 64; Gaps 13;  
Matches 49; Conservative 27; Mismatches 55;  
QY 13 VAVSADPIHYDKITE--EINKAIDDAIAAEQSETIDPMKVPDPHADKFERHVGIV--DFKG 69  
Db 118 VAGRAADVHLGADVGRVDVAVD-----VELQRRID-----ADDAQATD--HLGVVGVDFLR 167  
QY 70 E-----LAMNTEARGLKQKRGDANVKG-----EGIVKAHLIGVHDHIVSM 114  
Db 168 AQHQLVILVALQVTEHVGVAP--RQGDRAARGEAQLAGVQDVEGRVLOH--FGVHGOVLER 224  
QY 115 EYDLA--YKGLDHPHTTHVISDIQDFVVVLSLEISDEGNITMTSFVRQFANVNHIGGL 172  
Db 225 RLDQAHERVGD-----AADTG-----LQRAEVAHAPGV 254  
QY 173 SI-LDPIFGVLSVVL 186  
Db 255 DLAEEDIDVVGDL 269  
RESULT 53  
US-08-219-262B-7  
; Sequence 7, Application US/08219262B  
; Patent No. 5788970  
; GENERAL INFORMATION:  
; APPLICANT: VAKHARIA, VIKRAM  
; APPLICANT: SNYDER, DAVID B  
; APPLICANT: MENGEL-WHERSAT, STEPHANIE A  
; TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS  
; TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED  
; TITLE OF INVENTION: THEREON  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT  
; STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: USA  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/219,262B  
; FILING DATE: 29-MAR-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: OBLON, NORMAN F  
; REGISTRATION NUMBER: 24,618  
; REFERENCE/DOCKET NUMBER: 2747-047-27  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 413-3000  
; TELEFAX: (703) 413-2220  
; TELEX: 248855 OPAT UR  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1012 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
; ORIGINAL SOURCE:  
; ORGANISM: Infectious bursal disease virus  
; STRAIN: 52/70  
US-08-219-262B-7  
Query Match 7.3%; Score 78; DB 1; Length 1012;  
Best Local Similarity 23.2%; Pred. No. 10; Indels 28; Gaps 10;  
Matches 39; Conservative 37; Mismatches 64;

Qy	40	IEQSTIDPMKVPDHADKFERHVGIVDFKELA-MRNIEARGLKQKMRQGDANDVKEBGI	98
Db	102	VSRSLTVASRSTLPGGVYALNCTINAVTFQSGSELTDVSYGL-----MSGATNINDKIG-	156
Qy	99	VKAHLILGVHDDIVSM--EYDLAY-KIGDLHPTTHVTSIQDFVVALSLEISDEGNI-TM	154
Db	157	---NVLNGEGVTLSLPTSYDGLVRLGDPPIAIGL-----DPMVATCSDSDRPRVYTI	208
Qy	155	TSFVEQRQFANVNVNHIGGSLIDRIFGVLSDVLTA-----IFQDVTVR	195
Db	209	TAADYDFSRSSOYOP--GGVTI--TLFSANIDAITSLSIGSELVFOVSVC	253

RESULT 54  
 US-08-219-262B-8  
 ; Sequence 8, Application US/08219262B  
 ; Patent No. 5788970  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VAKHARIA, VIKRAM  
 ; APPLICANT: SNYDER, DAVID B  
 ; APPLICANT: MENDEL-WHERSAT, STEPHANIE A  
 ; TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS  
 ; TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED  
 ; TITLE OF INVENTION: THEREON  
 ; NUMBER OF SEQUENCES: 15  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT  
 ; STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR  
 ; CITY: ARLINGTON  
 ; STATE: VIRGINIA  
 ; COUNTRY: USA  
 ; ZIP: 22202  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/219,262B  
 ; FILING DATE: 29-MAR-1994  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: OBLON, NORMAN F  
 ; REGISTRATION NUMBER: 24,618  
 ; REFERENCE/DOCKET NUMBER: 2747-047-27  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (703) 413-3000  
 ; TELEFAX: (703) 413-2220  
 ; TELEX: 248955 OPAT UR  
 ; INFORMATION FOR SEQ ID NO: 8:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1012 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS:  
 ; TOPOLOGY: unknown  
 ; MOLECULE TYPE: protein  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Infectious bursal disease virus  
 ; STRAIN: STC  
 ; US-08-219-262B-8

QY 155 TSFVROFANVNHGGLSILDPFGVLSDVLT-----JQDTPR 195  
Db 209 TAADYOFSSQOP-GGVTI--TLFSANIDAITSLSVGGELVFTQSVQ 253

RESULT 55  
US-09-031-655-7  
; Sequence 7, Application US/09031655  
; Patent No. 6017759  
; GENERAL INFORMATION:  
; APPLICANT: VAKHARIA, VIKRAM  
; APPLICANT: SNYDER, DAVID B  
; APPLICANT: MENGEL-WHERSAT, STEPHANIE A  
; TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSA DISEASE VIRUS  
; TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED  
; TITLE OF INVENTION: THEREON  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT  
; STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR  
; CITY: ARLINGTON  
; STATE: VIRGINIA  
; COUNTRY: USA  
; ZIP: 22202  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/031,655  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/219,262  
; FILING DATE: 29-MAR-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: OBLON, NORMAN F  
; REGISTRATION NUMBER: 24,618  
; REFERENCE/DOCKET NUMBER: 2747-047-27  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 413-3000  
; TELEFAX: (703) 413-2220  
; TELEX: 248855 OPAT UR  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1012 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
; ORIGINAL SOURCE:  
; ORGANISM: Infectious bursal disease virus  
; STRAIN: 52/70  
; US-09-031-655-7

	Query Match	7.3%	Score 78;	DB 3;	Length 1012;	
	Best Local Similarity	23.2%;	Prd. No. 10;			
	Matches 39;	Conservative 37;	Mismatches 64;	Indels 28;	Gaps 10;	
QY	40	IEQSETIDPMKVPHADKFERHVGIVDFRGEALA-MENIEARGLKOMRKQGDANVKGEEI	98	:	:	:
		: : : :	: : : :	: : : :	: : : :	: : : :
Dd	102	VSRSLTVRSSTLPGGVYALNGTINAVTFQGSSELTDSYNGL---	MSATANDKIG-	156		
QY	99	VKAHLITGVHDIVSM--EYDLA-KLGDLHPHTHVISDIODFVVALSLELSDEGNI-TM	154	:	:	:
		: : : : :	: : : : :	: : : : :	: : : : :	: : : : :
Dd	157	--NVLVGGEGVTVULSTPSVDLGVRLGDPFIAGU-----DPRKVATCDSSDRPRTTI	208	:	:	:
QY	155	TSFVRGFQFNVNHIGSLSDLPFGVLSDVITA-----IFQDTVR	195	:	:	:
		: : : : :	: : : : :	: : : : :	: : : : :	: : : : :
Dd	209	TAADYQFSQYOQP-GGVTT--TLFSANIDAITSLSIGGVLFVQTSVQ	253	:	:	:



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; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 31003
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31003

Query Match      7.3%; Score 77.5; DB 4; Length 409;
Best Local Similarity 24.2%; Pred. No. 2.9;
Matches 40; Conservative 28; Mismatches 62; Indels 35; Gaps 8;

QY 23 DKITEEINKAIDDAIAIEQSETIDPMKVPDHPADKFER-----HV-GIVD-----F 67
D5 134 EKAARKINQALDECLSA--HNMTPRGSLPALPPAFDRPFRPSTHAPGLLDMLLRSS 191
QY 68 KGLAMENIERA--RGLKQMKRQGDANVKGEIGVKAHLIGVHDDIVSMYDLYKIGD 124
D5 192 KWEKAELEAQYQODIFEWTAARDAHEKARSIDDKA-IRLAAKGYSQAOMERALDYVLSG 250
QY 125 L-----HPTHVSDIQDFVVALSFEISDEGNITMTSFEVR 160
D5 251 IAWPKETLLEFESHVSGI-----ALDIDLPDEGVPNRTAEAR 290

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENE BANK
; CLONE: gi33985
US-09-074-579-3

Query Match      7.3%; Score 77.5; DB 3; Length 946;
Best Local Similarity 19.8%; Pred. No. 10;
Matches 57; Conservative 46; Mismatches 84; Indels 101; Gaps 14;

QY 19 PIHYDKITEEINKAID--DATAIEQSETIDPMKVPDHPADKFERHVGIVDPKGL-AMRN 75
D5 301 PDNLDPFIPKNILFVIDVSGSGMWGMKQTVAMKTIILDDLRADHFVIDFNQIRWTRN 360
QY 76 -----IEARGLKQMKRQGDANVKGEIGVKAHLIGVHDDIVSM-----YDLAYK 121
D5 361 DLFLQKHLRLQIAKRYIEKIQPSGGTNI--NEALLRAIFILNEANNLGLLDPSVSLIL 418
QY 122 LGDLHPTT-----HVISDIQDFVALSL-----EISDE-----G 150
D5 419 VSDGDPYTGELKLGKIQKVKENIQDNISLFGMGDFVDYDFLKRLSNENHGAQRIY 478
QY 151 NITMTSFEVROFANVW-----NHIGGLSIL-----DPI- 178
D5 479 N-QDTSSQLKKFYQVSTPLLRNVQFNYPHTSVTDVTQNNFNHYFGGSEIVVAGKFPDAK 537
QY 179 FGVLSDVLTAI-----FQDVRKEMTKVLAPAFKREL 210
D5 538 LDQIESVITATSANTQLVLETLAQMDLDQFLSKD--KHADPDFTRKL 583
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```

RESULT 59
US-09-074-579-3
; Sequence 3, Application US/09074579
; Patent No. 6001596
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl J.
; APPLICANT: Patterson, Chandra
; TITLE OF INVENTION: GROWTH-ASSOCIATED TRYPSIN-TYPE
; TITLE OF INVENTION: INHIBITOR HEAVY CHAIN PRECURSOR
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/074,579
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0505 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4186
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 946 amino acids
; TYPE: amino acid
; STRANDEDNESS: single

RESULT 60
US-09-388-774-3
; Sequence 3, Application US/09388774
; Patent No. 6228991
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Guegler, Karl J.
; APPLICANT: Patterson, Chandra
; TITLE OF INVENTION: GROWTH-ASSOCIATED TRYPSIN-TYPE
; TITLE OF INVENTION: INHIBITOR HEAVY CHAIN PRECURSOR
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Word Perfect 6.1/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/388,774
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/074,579
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cerrone, Michael C
; REGISTRATION NUMBER: 39,132
; REFERENCE/DOCKET NUMBER: PF-0505 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 946 amino acids
; TYPE: amino acid
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; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENE BANK
; CLONE: gi33985
US-09-388-774-3

Query Match
Best Local Similarity 7.3%; Score 77.5; DB 3; Length 946;
Matches 57; Conservative 46; Mismatches 84; Indels 101; Gaps 14;

QY 19 PIHYDKITEINKAID--DAIAAIEQSEITDPKVPDHDADKPERHVGIVDEKXGEL-AMEN 75
Db 301 PDNLDPIPKNILEFVIDSSGWCVKMKQTVKAMKTTILDLRAEDHPSVIDFNQNTWRN 360
QY 76 -----IEARGLKQKQGDANVKGEIGIVKAHLLIGVHDDIVSME---YDLAYK 121
Db 361 DLPQLOKHRLQIAKRYIEKIQPSGGTNI--NEALLRAIFILNEANNLGLDPSVSLIIL 418
QY 122 LGDLHPTT-----HWISDIQDPVVALSI-----EISDE-----G 150
Db 419 VSDGDTVGELKLSKIQKQVKNIQNISLFLGCGFDYDYLKLSNENHGIARIVG 478
QY 151 NITMTSFEVRQFANV-----NHIGLSIL-----DPT- 178
Db 479 N-QDTSSQLKFKYNQVSTPLLRNVQFNYPHTSVTDVTQNNFNHYFGGSEIVVAGKFDPAK 537
QY 179 FGVLSDVLTAT-----FOCTVRKENTKVLAPAFKRE 210
Db 538 LDQIESVITATSANTQLVLETLAQMDLDQFLSKD--KHADPDFTRKL 583

RESULT 61
US-09-328-352-5704
; Sequence 5704, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 5704
; LENGTH: 1233
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-5704

Query Match
Best Local Similarity 26.9%; Score 77.5; DB 4; Length 1233;
Matches 50; Conservative 16; Mismatches 93; Indels 27; Gaps 7;

QY 15 VSADPTHYDKITEINK--ALDDAIAIEQSEITD--PMKVPDHDADKPERHVGIVDPKGELA 72
Db 93 VMSDTHMEDLVPEINREARLAKACEKYSTDPKRFVAGVLGPTSRCTCSISPPVNNPA 152
QY 73 MRNIEARGLKQKQGDANVKGEIGIVKAHLLIGVHDDIVSME---YDLAYKLGDLHPTTH 130
Db 153 FRNISFDELK-----ENYIEATHALIEGGADIIILITVFTDLNCKAAIFAVKE 200
QY 131 VISDI-QDFVVALSLSISDEGNITMTSFEVRQFANVNH-----IG-----GLSILDPHF 179
Db 201 VFQIGRELPIMISGTITDASGRITGTGTABAFWNSVRHGDLISLGFNCALGADAMRPHV 260
QY 180 GVLSDV 185
Db 261 KTISDV 266

RESULT 62
US-09-425-453A-8

; Sequence 8, Application US/09425453A
; Patent No. 6468793
; GENERAL INFORMATION:
; APPLICANT: Teem, John L.
; TITLE OF INVENTION: CFTR Genes and Proteins for Cystic Fibrosis Gene Therapy
; FILE REFERENCE: FSU-99XC1
; CURRENT APPLICATION NUMBER: US/09/425,453A
; CURRENT FILING DATE: 1999-10-22
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 8
; LENGTH: 1480
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: PEPTIDE
; LOCATION: (1)...(1480)
US-09-425-453A-8

Query Match
Best Local Similarity 7.3%; Score 77.5; DB 4; Length 1480;
Matches 35; Conservative 21; Mismatches 50; Indels 17; Gaps 7;

QY 97 GIVKAHLLIGVHDDIVSMEYDLYKLGDLHPTTHVISDIQDFVVALSLSISDEGNITMTS 156
Db 500 GTIKENIFGV-----SYD-EYRYSRVKACQLEEDISKFAEKDNI-VLGEGGITLSG 550
QY 157 FEVRQ--FANVNHIGGLSILDPIFGVLSVLT--AIFQDVTVRKEM---TKVLAPAFKRE 209
Db 551 GQMARISLARAVYKDADLYLLDSPFGYL-DVLTKEIFECSVCVKLMANKTRILVTSKMEH 609
QY 210 LEK 212
Db 610 LKK 612

RESULT 63
US-09-425-453A-18
; Sequence 18, Application US/09425453A
; Patent No. 6468793
; GENERAL INFORMATION:
; APPLICANT: Teem, John L.
; TITLE OF INVENTION: CFTR Genes and Proteins for Cystic Fibrosis Gene Therapy
; FILE REFERENCE: FSU-99XC1
; CURRENT APPLICATION NUMBER: US/09/425,453A
; CURRENT FILING DATE: 1999-10-22
; PRIOR FILING DATE: 1998-10-23
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 18
; LENGTH: 1480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-425-453A-18

Query Match
Best Local Similarity 7.3%; Score 77.5; DB 4; Length 1480;
Matches 35; Conservative 21; Mismatches 50; Indels 17; Gaps 7;

QY 97 GIVKAHLLIGVHDDIVSMEYDLYKLGDLHPTTHVISDIQDFVVALSLSISDEGNITMTS 156
Db 500 GTIKENIFGV-----SYD-EYRYSRVKACQLEEDISKFAEKDNI-VLGEGGITLSG 550
QY 157 FEVRQ--FANVNHIGGLSILDPIFGVLSVLT--AIFQDVTVRKEM---TKVLAPAFKRE 209
Db 551 GQMARISLARAVYKDADLYLLDSPFGYL-DVLTKEIFECSVCVKLMANKTRILVTSKMEH 609
QY 210 LEK 212
Db 610 LKK 612
```

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RESULT 64
US-08-219-262B-3
; Sequence 3, Application US/08219262B
; Patent No. 5788970
; GENERAL INFORMATION:
; APPLICANT: VAKHARIA, VIKRAM
; APPLICANT: SNYDER, DAVID B
; APPLICANT: MENGEL-WHERSAT, STEPHANIE A
; TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS
; TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED
; TITLE OF INVENTION: THEREON
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT
; STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/219,262B
; FILING DATE: 29-MAR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 2747-047-27
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1012 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Infectious bursal disease virus
; STRAIN: E/DEL
US-08-219-262B-3

Query Match 7.2%; Score 77; DB 1; Length 1012;
Best Local Similarity 23.4%; Pred. No. 13;
Matches 39; Conservative 36; Mismatches 64; Indels 28; Gaps 10;

QY 40 IEQSETIDPMKVPDHADKFERHVGIVDFKELA-MRNIEARGLKQMKRQGDANVKGEI 98
DB 102 VSRSLTVRSSTLPGGVYALNGTINAVTFQGSLSLTDVSYNGL-----MSATANINDKIG- 156
QY 99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVISDIQDFVVALSLEISDEGNI-TM 154
DB 157 ---NVLVGEGVTLSLPTSXYDLGVRLGDPPIAIGL-----DPKMWATCSDSDRPRVYTI 208
QY 155 TSFEVRQFANVNVHIGLSILDPFGVLSVLTA-----IFQDTV 194
DB 209 TAADDYQFSQYQP-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

RESULT 65
US-08-219-262B-5
; Sequence 5, Application US/08219262B
; Patent No. 5788970
; GENERAL INFORMATION:
; APPLICANT: VAKHARIA, VIKRAM
```

```
; APPLICANT: SNYDER, DAVID B
; APPLICANT: MENGEL-WHERSAT, STEPHANIE A
; TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS
; TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED
; TITLE OF INVENTION: THEREON
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT
; STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: USA
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/219,262B
; FILING DATE: 29-MAR-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 2747-047-27
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1012 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Infectious bursal disease virus
; STRAIN: CU-1
US-08-219-262B-5

Query Match 7.2%; Score 77; DB 1; Length 1012;
Best Local Similarity 23.4%; Pred. No. 13;
Matches 39; Conservative 36; Mismatches 64; Indels 28; Gaps 10;

QY 40 IEQSETIDPMKVPDHADKFERHVGIVDFKELA-MRNIEARGLKQMKRQGDANVKGEI 98
DB 102 VSRSLTVRSSTLPGGVYALNGTINAVTFQGSLSLTDVSYNGL-----MSATANINDKIG- 156
QY 99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVISDIQDFVVALSLEISDEGNI-TM 154
DB 157 ---NVLVGEGVTLSLPTSXYDLGVRLGDPPIAIGL-----DPKMWATCSDSDRPRVYTI 208
QY 155 TSFEVRQFANVNVHIGLSILDPFGVLSVLTA-----IFQDTV 194
DB 209 TAADDYQFSQYQP-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

RESULT 66
US-08-708-541A-30
; Sequence 30, Application US/08708541A
; Patent No. 5871744
; GENERAL INFORMATION:
; APPLICANT: VAKHARIA, Vikram N.
; APPLICANT: MUNDT, Egbert
; TITLE OF INVENTION: A METHOD FOR GENERATING BIRNAVIRUS FROM
; TITLE OF INVENTION: SYNTHETIC RNA TRANSCRIPTS
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIKAIKO, MARMELSTEIN, MURRAY & ORAM LLP
; STREET: 655 Fifteenth Street, N. W.,
; STREET: Suite 330 - G Street lobby
```



REGISTRATION NUMBER: 24,618  
REFERENCE/DOCKET NUMBER: 2747-047-27

## TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 413-3000  
TELEFAX: (703) 413-2220

TELEX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 1012 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: unknown

MOLECULE TYPE: protein

ORIGINAL SOURCE:

ORGANISM: Infectious bursal disease virus

STRAIN: CU-1

US-09-031-655-5

Query Match 7.2%; Score 77; DB 3; Length 1012;

Best Local Similarity 23.4%; Pred. No. 13;

Matches 39; Conservative 36; Mismatches 64; Indels 28; Gaps 10;

QY 40 IEQSETIDPMKVPDHADKFERHVGIVDFKGLA-WRNIEARGLKQMKRQGDANVKGEIGI 98

DB 102 VRSLSVTSSSTLPGGVYALNGTINAVTFQGSLSLTDVSYNGL-----MSATANINDKIG- 156

QY 99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVISDIQDFVVALSLSISDEGNI-TM 154

DB 157 ---NVLVEGVTLSLPTSYDLGVRLGDP:PAIGL-----DPKXVATCDSSDRPRVYTI 208

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

## RESULT 69

US-09-147-771-30

Sequence 30, Application US/09147771

Patent No. 6596280

GENERAL INFORMATION:

APPLICANT: VAKHARIA, Vikram N.

APPLICANT: MUNDT, Egbert

TITLE OF INVENTION: A METHOD FOR GENERATING BIRNAVIRUS

TITLE OF INVENTION: FROM SYNTHETIC RNA TRANSCRIPTS

NUMBER OF SEQUENCES: 34

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARENT FOX KINTNER PLOTKIN & KAHN

STREET: 1050 Connecticut Ave., N.W. Suite 600

CITY: Washington

STATE: DC

COUNTRY: USA

ZIP: 20036-5339

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/147,771

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/198,913

FILING DATE: 24-NOV-98

APPLICATION NUMBER: PCT/US97/12955

FILING DATE: 31-JUL-97

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/708,541

FILING DATE: 05-SEP-96

ATTORNEY/AGENT INFORMATION:

NAME: KITTIS, Monica C.

REGISTRATION NUMBER: 36,105

REFERENCE/DOCKET NUMBER: P108288-09002

## TELECOMMUNICATION INFORMATION:

TELEPHONE: 202/857-6000

TELEFAX: 202/638-4810

INFORMATION FOR SEQ ID NO: 30:

SEQUENCE CHARACTERISTICS:

LENGTH: 1012 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-147-771-30

Query Match 7.2%; Score 77; DB 4; Length 1012;

Best Local Similarity 23.4%; Pred. No. 13;

Matches 39; Conservative 36; Mismatches 64; Indels 28; Gaps 10;

QY 40 IEQSETIDPMKVPDHADKFERHVGIVDFKGLA-WRNIEARGLKQMKRQGDANVKGEIGI 98

DB 102 VRSLSVTSSSTLPGGVYALNGTINAVTFQGSLSLTDVSYNGL-----MSATANINDKIG- 156

QY 99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVISDIQDFVVALSLSISDEGNI-TM 154

DB 157 ---NVLVEGVTLSLPTSYDLGVRLGDP:PAIGL-----DPKXVATCDSSDRPRVYTI 208

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

QY 155 TSFEVRQANVNVNHIGLSILDPFGVLSLVLT-----IFQDTV 194

DB 209 TAADDYQSSQYQ-P-GGVTI--TLFSANIDAITSLSVGGELVFQTSV 252

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;
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...429
; SEQUENCE DESCRIPTION: SEQ ID NO: 3785:
US-09-107-532A-3785

Query Match
Best Local Similarity 7.2%; Score 76.5; DB 4; Length 429;
Matches 48; Conservative 34; Mismatches 84; Indels 31; Gaps 10;

QY 31 KAIDAI-----AAIGSETIDPMKVPDHDADKPERHVGIVDFKGLAMRNIEARGLKQMK 85
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
91 KKVDDWVKTLILSVYQLEFLD--KVAHAALNEA-VEIAKVGKNGPTGKFVNGVLRNYQ 147
QY 86 RQGDANVKG-----BEGIVKAHLLIGVHDDIV-SMEYDLAYKLG-DLHPTTHVIS--DIQ 136
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
148 RQAPDLQGGADPIERLSVKISLPLWMTKRLVQIGYEETERKGLSLYQFSAASAVDTR 207
QY 137 DFVVALSLEISDEGNITMTSFYRQFANVY--NHIGLSILDPFGVLSDLVLTAFQDTV 194
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
208 RLSRQDAITVLQEEETAEKRSQSPYGVIVAKGHLASSLFDH--GVW-----TI 255
QY 195 RKEMTKVLAPAFKKELE 211
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 71
US-09-107-532A-6514
; Sequence 6514, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 6514:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 164 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
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;
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...164
; SEQUENCE DESCRIPTION: SEQ ID NO: 6514:
US-09-107-532A-6514

Query Match
Best Local Similarity 7.1%; Score 76; DB 4; Length 164;
Matches 25; Conservative 30; Mismatches 41; Indels 28; Gaps 5;

QY 64 IVDFKGLAMRNIEARGLKQMKRQGDANVKGEG-----IVZAHLLIGVHDDIVSMEYDLA 119
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
8 VMEYKFNILNKEV-----LPTQGTINQDNDDDIVIKK--IEPIDSDINVFYYSK 57
QY 120 YKGLDLHTTHVISDIQDFVAL--SLEISDEGNITMT-----SFEVROFANV 165
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
58 EKLADFSNAIEKIKDFMISVWDMVLADESNYTSIYRLEDSNWIETSLLEKTLPLNS 117
QY 166 VNHI 169
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
118 VNYI 121

RESULT 72
US-09-252-991A-22095
; Sequence 22095, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22095
; LENGTH: 645
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22095

Query Match
Best Local Similarity 7.1%; Score 76; DB 4; Length 645;
Matches 37; Conservative 26; Mismatches 69; Indels 22; Gaps 8;

QY 46 IDPMKVPD-HADKPERHVGIVDFK-----GELAMNIEARGLKQMKRQGDANV 92
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
32 VDPFAVPQATADGVGHRGVAGFQQQLGQGRHVLGELAGVLDVGVGGEARLE-VADV 90
QY 93 KGEIGIVKAHLLIGVHDDIVSMEYDLAYKLGDLH-PTHVISDIQDFV-VALSLEISDEG 150
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
91 RGETGVAMAVAFGEQ---RVEHPRLLRQGTQHVALHVAGTTPDRVHRGLAVQPRQDG 146
QY 151 NITWTSFEVROFANVNVNHIGLSILDPFGVLSL 184
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
147 FLVAG-TAHAFGGFVDHRRG-TLADPVLARHG 178

RESULT 73
US-09-107-532A-3944
; Sequence 3944, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
```

```
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD/ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 3944:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1196 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...1196
; SEQUENCE DESCRIPTION: SEQ ID NO: 3944:
US-09-107-532A-3944

Query Match 7.1%; Score 76; DB 4; Length 1196;
Best Local Similarity 22.2%; Pred. No. 22;
Matches 45; Conservative 41; Mismatches 93; Indels 24; Gaps 11;

QY 15 VSADPIHYDKITEENKKAIDDAIAEIOSETI--DPMKVPDHDADKFERHVGIVDFKGLA 72
Db 861 LTAFPSDEHVEETSELEKQINLSA---QRETKAEKAKEQDRRQKEID--KLEAVLA 915
QY 73 MRNTEARGLKQMKRQGDANVKGEGIVKAHLIGVHDDIVSMGYDLAYKLG--DLHPETH 130
Db 916 ERNREOKA--RLSEQSKLEVQKD---RAEMILDNLHLTYLQSEYQLAFERASQDYQETTD 969
QY 131 VISIDIQDFVVALSLEISDEGNITMTSPFVROFANV-VNHIGGLSILDPFQVLSDLTAL 189
Db 970 -LEDSRTKVSLEKQIEKLGFPVNLNLSIE--QYEQVSEHFTLATQRDDLLAAKNQLPETM 1026
QY 190 --FQDTVR---KENTKVLAPAFK 207
Db 1027 DEMDDEVTRFEKVFPAIRQEFK 1049

RESULT 74
US-09-252-991A-21128
; Sequence 21128, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18

; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD/ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 3944:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1196 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...1196
; SEQUENCE DESCRIPTION: SEQ ID NO: 3944:
US-09-107-532A-3944

Query Match 7.1%; Score 75.5; DB 4; Length 423;
Best Local Similarity 21.2%; Pred. No. 5.2;
Matches 29; Conservative 26; Mismatches 47; Indels 35; Gaps 4;

QY 5 LLIAAVAFVAVSADPIHYDKITEENKKAID--AIAAIEOSETIDPMKVPDHDADK 58
Db 128 LAVAVVELVAVA---QVDAIGTGGRHRAVEEYRLRQAALLVEAAVEVQVLGAADGERR 183
QY 59 ERHVGIVD-----FKGELAMENI-----BARGELKQMKROGDANVK 93
Db 184 DOHVAAVAVLVENRRQFLQGVVAVAVIAIAGFPEHHHVGPAQRGRRAHORRAVAV 243
QY 94 GEEGIVKAHLIGVHDD 110
Db 244 GKHOAARLHLVVELHFD 260

RESULT 75
US-09-328-352-5426
; Sequence 5426, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 5426
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-5426

Query Match 7.1%; Score 75.5; DB 4; Length 441;
Best Local Similarity 23.1%; Pred. No. 5.5;
Matches 53; Conservative 33; Mismatches 78; Indels 65; Gaps 11;

QY 3 KFLIIAAVAFVAVSADPIHYDKI-TEEINKAIDDAIAEIOSETIDPMKVPDHDADKFERH 61
Db 211 KLTILASCAF---GIPLQFDKVTYEGISKI-----TAQDVKYAEELGFRFKH 254
QY 62 VGVDFPKGELAMENIENRGLKQK--KROGDANVKGEGIVKAHLIGVHDDIVSMGYDLA 119
Db 255 LGLI-----APRAEKGLERHVTPLIDPEQLIANVG----VKNVAVLQANAVGPTLYYGAG 306
QY 120 YKLGDLHPT-THVISIDIQDFVVALSLEISDEGNITMTSPFVROFANVNHIGGLSIL--- 175
Db 307 AGAG---PTASAVVADVIDIVDISYEDGAGTIPQLAFEA-----LTNMPILSRE 354
QY 176 -----DPIFGVLSVLT-----AIFQDVTVRKEMTKVL 202
Db 355 EMNTGYIRLNAEDQTVGLADVTTILSRAGISDAIMOOSRLKDLPIV 403

RESULT 76
US-09-134-000C-4810
; Sequence 4810, Application US/09134000C
; Patent No. 6617196
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
```



APPLICANT: VAKHARIA, VIKRAM  
APPLICANT: LUETTICKEN, HEINRICH D.  
TITLE OF INVENTION: ATTENUATED, LIVE VACCINE FOR DELAWARE  
TITLE OF INVENTION: STRAIN IDV  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER AND  
ADDRESSEE: NEUSTADT, P.C.  
STREET: 1755 JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: U.S.A.  
ZIP: 22202

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
FILING DATE: 19920914  
APPLICATION NUMBER: US/97/944,525

CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: KESLER, STEVEN B.  
REGISTRATION NUMBER: 30,073  
REFERENCE/DOCKET NUMBER: 2284-028-0 CIP

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 413-3000  
TELEFAX: (703) 413-2220  
TELEX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1012 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-944-525-2

Query Match 7.1%; Score 75.5; DB 1; Length 1012;  
Best Local Similarity 23.2%; Pred. No. 20;  
Matches 36; Conservative 35; Mismatches 63; Indels 21; Gaps 9;

QY 40 IEQSETIDPMKVPDHADKFERHVGIVDPKGLA-MRNIEARGLKQMKRQGDANVKGEI 98  
Db 102 VRSLSVRSSTLPGGVYALNGTINAVTFQGSLSLTDVSYNGL---MSATANINDKIG- 156  
QY 99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVSDIQDFVVALSLEISDEGNI-TM 154  
Db 157 ---NVLVGEGTVLSLPTSVDLGVRLGDPPIAIGL-----DPRKVVATCSDSDRPVYTI 208  
QY 155 TSFEVRQFANVNHIGLSILDPIFGVLSDLVTAI 189  
Db 209 TAADYQFSQY-QTGGVTI--TLFSANIDAITS 240

RESULT 80  
US-08-219-262B-1  
Sequence 1, Application US/08219262B  
Patent No. 5788970

GENERAL INFORMATION:  
APPLICANT: VAKHARIA, VIKRAM  
APPLICANT: SNYDER, DAVID B  
APPLICANT: MENGEL-WHERSAT, STEPHANIE A  
TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS  
TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED  
TITLE OF INVENTION: THEREON  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT  
STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: USA

ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
FILING DATE: 29-MAR-1994  
APPLICATION NUMBER: US/08/219,262B

CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: OBLON, NORVAN F.  
REGISTRATION NUMBER: 24,618  
REFERENCE/DOCKET NUMBER: 2747-047-27

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 413-3000  
TELEFAX: (703) 413-2220  
TELEX: 248855 OPAT UR

INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1012 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown

MOLECULE TYPE: protein  
ORIGINAL SOURCE: Infectious bursal disease virus  
ORGANISM: GLS  
STRAIN: GLS  
US-08-219-262B-1

Query Match 7.1%; Score 75.5; DB 1; Length 1012;  
Best Local Similarity 23.2%; Pred. No. 20;  
Matches 36; Conservative 35; Mismatches 63; Indels 21; Gaps 9;

QY 40 IEQSETIDPMKVPDHADKFERHVGIVDPKGLA-MRNIEARGLKQMKRQGDANVKGEI 98  
Db 102 VRSLSVRSSTLPGGVYALNGTINAVTFQGSLSLTDVSYNGL---MSATANINDKIG- 156  
QY 99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVSDIQDFVVALSLEISDEGNI-TM 154  
Db 157 ---NVLVGEGTVLSLPTSVDLGVRLGDPPIAIGL-----DPRKVVATCSDSDRPVYTI 208  
QY 155 TSFEVRQFANVNHIGLSILDPIFGVLSDLVTAI 189  
Db 209 TAADYQFSQY-QTGGVTI--TLFSANIDAITS 240

RESULT 81  
US-08-219-262B-2  
Sequence 2, Application US/08219262B  
Patent No. 5788970

GENERAL INFORMATION:  
APPLICANT: VAKHARIA, VIKRAM  
APPLICANT: SNYDER, DAVID B  
APPLICANT: MENGEL-WHERSAT, STEPHANIE A  
TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS  
TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED  
TITLE OF INVENTION: THEREON  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT  
STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: USA  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/219,262B



FILING DATE: 29-MAR-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: OBLON, NORMAN F  
REGISTRATION NUMBER: 24,618  
REFERENCE/DOCKET NUMBER: 2747-047-27  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 413-3000  
TELEFAX: (703) 413-2220  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1012 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
ORGANISM: Infectious bursal disease virus  
STRAIN: DS326  
US-08-219-262B-2

Query Match 7.1%; Score 75.5; DB 1; Length 1012;  
Best Local Similarity 23.2%; Pred. No. 20;  
Matches 36; Conservative 35; Mismatches 63; Indels 21; Gaps 9;

QY 40 IEQSETIDPMKVPDHADKFERHVGIVDFKGLA-MENIEARGLKQMKRQGDANVKGEIGI 98  
Db 102 VRSRLTVRSSTLPGGVYALNGTINAVTFQGSLSLTDVSYNGL-----MSATANINDKIG- 156  
QY 99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVISDIQDFVVALSLEISDEGNI-TM 154  
Db 157 ---NVLVGEGVTLSLPTSVDLGVRLGDPPIAIGL-----DPKMATCDSSDRPVYTI 208

QY 155 TSFEVRQFANVNHIGLSILDPFGVLSDLVTAI 189  
Db 209 TAADYQFSSQYSGVTI--TLFSANIDAITSL 240

RESULT 82  
US-08-219-262B-4  
Sequence 4, Application US/08219262B  
Patent No. 5788970  
GENERAL INFORMATION:  
APPLICANT: VAKHARIA, VIKRAM  
APPLICANT: SNYDER, DAVID B  
APPLICANT: MENGEL-WHERSAT, STEPHANIE A  
TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS  
TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED  
ON THE INVENTION: THEREON  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT  
STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: USA  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/219,262B  
FILING DATE: 29-MAR-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: OBLON, NORMAN F  
REGISTRATION NUMBER: 24,618  
REFERENCE/DOCKET NUMBER: 2747-047-27  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 413-3000

TELEFAX: (703) 413-2220  
TELEX: 248855 OPAT UR  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1012 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
ORGANISM: Infectious bursal disease virus  
STRAIN: D78  
US-08-219-262B-4

Query Match 7.1%; Score 75.5; DB 1; Length 1012;  
Best Local Similarity 23.2%; Pred. No. 20;  
Matches 36; Conservative 35; Mismatches 63; Indels 21; Gaps 9;

QY 40 IEQSETIDPMKVPDHADKFERHVGIVDFKGLA-MENIEARGLKQMKRQGDANVKGEIGI 98  
Db 102 VRSRLTVRSSTLPGGVYALNGTINAVTFQGSLSLTDVSYNGL-----MSATANINDKIG- 156  
QY 99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVISDIQDFVVALSLEISDEGNI-TM 154  
Db 157 ---NVLVGEGVTLSLPTSVDLGVRLGDPPIAIGL-----DPKMATCDSSDRPVYTI 208

QY 155 TSFEVRQFANVNHIGLSILDPFGVLSDLVTAI 189  
Db 209 TAADYQFSSQYSGVTI--TLFSANIDAITSL 240

RESULT 83  
US-08-219-262B-12  
Sequence 12, Application US/08219262B  
Patent No. 5788970  
GENERAL INFORMATION:  
APPLICANT: VAKHARIA, VIKRAM  
APPLICANT: SNYDER, DAVID B  
APPLICANT: MENGEL-WHERSAT, STEPHANIE A  
TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS  
TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED  
ON THE INVENTION: THEREON  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT  
STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR  
CITY: ARLINGTON  
STATE: VIRGINIA  
COUNTRY: USA  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/219,262B  
FILING DATE: 29-MAR-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: OBLON, NORMAN F  
REGISTRATION NUMBER: 24,618  
REFERENCE/DOCKET NUMBER: 2747-047-27  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 413-3000  
TELEFAX: (703) 413-2220  
TELEX: 248855 OPAT UR  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1012 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

Db 209 TAADDYQFS

## RESULT 86

US-09-031-655-2

; Sequence 2, Application US/09031655

; Patent No. 6017759

; GENERAL INFORMATION:

; APPLICANT: VAKHARIA, VIKRAM

; APPLICANT: SNYDER, DAVID B

; TITLE OF INVENTION: MENDEL-WHERSAT, STEPHANIE A

; TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS

; TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED

; TITLE OF INVENTION: THEREON

; NUMBER OF SEQUENCES: 15

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER &amp; NEUSTADT

; STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR

; CITY: ARLINGTON

; STATE: VIRGINIA

; COUNTRY: USA

; ZIP: 22202

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/031,655

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/219,262

; FILING DATE: 29-MAR-1994

; ATTORNEY/AGENT INFORMATION:

; NAME: OBLON, NORMAN F

; REGISTRATION NUMBER: 24,618

; REFERENCE/DOCKET NUMBER: 2747-047-27

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (703) 413-3000

; TELEFAX: (703) 413-2220

; TELEX: 248855 OPAT UR

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1012 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: unknown

; MOLECULE TYPE: protein

; ORIGINAL SOURCE:

; ORGANISM: Infectious bursal disease virus

; STRAIN: DS326

; US-09-031-655-2

Query Match

Best Local Similarity 7.1%; Score 75.5; DB 3; Length 1012;

Matches 36; Conservative 35; Mismatches 63; Indels 21; Gaps 9;

QY

40 IEQSETIDPMKVPDHADKFERHVGIVDFKGLA-MRNIEARGLKQMKRQGDANVKGEEGI 98

Db 102 VRSLSVRSSTLPGVVALNGTINAVTFQGSLSLTDVSYNGL---MSATANINDKIG- 156

QY

99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVISDIDQDFVVALSLEISDEGNI-TM 154

Db 157 ---NVLVGEGVTLSLPTSVDLGVRLGDPFPAIGL-----DPKQVATCSDSDRPRVYTI 208

QY

155 TSFEVRQFANVHVGISLIDPIFGVLSDLVTAI 189

Db 209 TAADDYQFSQYS-GGVTI--TLFSANIDAITSLS 240

## RESULT 87

US-09-031-655-4

; Sequence 4, Application US/09031655

; Patent No. 6017759

; GENERAL INFORMATION:

; APPLICANT: VAKHARIA, VIKRAM

; APPLICANT: SNYDER, DAVID B

; TITLE OF INVENTION: MENDEL-WHERSAT, STEPHANIE A

; TITLE OF INVENTION: CHIMERIC INFECTIOUS BURSAL DISEASE VIRUS

; TITLE OF INVENTION: CDNA CLONES, EXPRESSION PRODUCTS AND VACCINES BASED

; TITLE OF INVENTION: THEREON

; NUMBER OF SEQUENCES: 15

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER &amp; NEUSTADT

; STREET: 1755 S. JEFFERSON DAVID HIGHWAY, FOURTH FLOOR

; CITY: ARLINGTON

; STATE: VIRGINIA

; COUNTRY: USA

; ZIP: 22202

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/031,655

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/219,262

; FILING DATE: 29-MAR-1994

; ATTORNEY/AGENT INFORMATION:

; NAME: OBLON, NORMAN F

; REGISTRATION NUMBER: 24,618

; REFERENCE/DOCKET NUMBER: 2747-047-27

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (703) 413-3000

; TELEFAX: (703) 413-2220

; TELEX: 248855 OPAT UR

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1012 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: unknown

; MOLECULE TYPE: protein

; ORIGINAL SOURCE:

; ORGANISM: Infectious bursal disease virus

; STRAIN: D78

; US-09-031-655-4

Query Match

Best Local Similarity 7.1%; Score 75.5; DB 3; Length 1012;

Matches 36; Conservative 35; Mismatches 63; Indels 21; Gaps 9;

QY

40 IEQSETIDPMKVPDHADKFERHVGIVDFKGLA-MRNIEARGLKQMKRQGDANVKGEEGI 98

Db 102 VRSLSVRSSTLPGVVALNGTINAVTFQGSLSLTDVSYNGL---MSATANINDKIG- 156

QY

99 VKAHLIGVHDDIVSM--EYDLAY-KLGDLPHTTHVISDIDQDFVVALSLEISDEGNI-TM 154

Db 157 ---NVLVGEGVTLSLPTSVDLGVRLGDPFPAIGL-----DPKQVATCSDSDRPRVYTI 208

QY

155 TSFEVRQFANVHVGISLIDPIFGVLSDLVTAI 189

Db 209 TAADDYQFSQYS-GGVTI--TLFSANIDAITSLS 240

## RESULT 88

US-09-031-655-12

; Sequence 12, Application US/09031655

; Patent No. 6017759

; GENERAL INFORMATION:

; APPLICANT: VAKHARIA, VIKRAM

; APPLICANT: SNYDER, DAVID B

; APPLICANT: MENDEL-WHERSAT, STEPHANIE A

```

COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/031,655
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/219,262
FILING DATE: 29-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 2747-047-27
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 1012 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-031-655-14

Query Match          7.1%; Score 75.5; DB 3; Length 1012;
Best Local Similarity 23.2%; Pred. No. 20;
Matches 36; Conservative 35; Mismatches 63; Indels 21; Gaps 9;

Py      40 IEQSETIDPKVDPHADKFERHGVIVDFKGLA-MRNIEARGLKQMKRQGDANVKGEGI 98
bb      102 VSRSLTVRSSTLPGGVYALNGTNAVTFQGSLSLTDSVNYGL---MSATANINDXIG- 156
Py      99 VKAHLLIGHVDHDVSM--EYDLAY-KLGDLHPHTHVISDIQDFVALSLSISDEGNI-TM 154
bb      157 ---NLVLGEGVTVLSPSTSDLVGLRGDIPALGL-----DPKWATCDSSDRPVYTI 208
Py      155 TSFEQFPANVNVNHIGLSITLDPIFGVLSVDLTAI 189
bb      209 TAAADNYQFSQY-QTGAVTI--TLFSANIDAITSLSL 240

RESULT 90
US-09-252-991A-24505
Sequence 24505, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 24505
LENGTH: 193
TYPE: PRt
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24505

Query Match          7.0%; Score 75; DB 4; Length 193;
Best Local Similarity 21.7%; Pred. No. 1.8;
Matches 39; Conservative 33; Mismatches 84; Indels 24; Gaps 8;

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QY 11 AFVAVSAD-PIHYDKITEEINKAIDDAIAIEQSEITIDPMKVPDHDADKPERHVGIVDFK 69  
Db 23 SFUSATRKPIDDRGTRTIGSKIDSL--IFTKAAVNIKADPALDK-DSHIVVVSNG 79  
QY 70 ELARNITEARGLQKQGDANVKGEIGIVKAHLIGVHDDI-VSMEYDIAYKLGDLHPT 128  
Db 80 IVLIAGQTPR-----ADLKSKEAQARTVQKVNHNELQVTPSSLLAARNDAWIT 131  
QY 129 ----THVISDIQFVVVLSLEISDEGNIT-----MTSFEVROQFANVNVNHHIGLSILDPIF 179  
Db 132 TKLTKOMLDPN--VPSRIKVVTEGIVVMGLVNOQEAQAVRVAQGVGVQKIVKLF 189

## RESULT 91

US-09-540-236-3313

; Sequence 3313, Application US/09540236

; Patent No. 6673910

; GENERAL INFORMATION:

; APPLICANT: Gary L. Breton et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR

; FILE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 2709.2005-001

; CURRENT APPLICATION NUMBER: US/09/540,236

; CURRENT FILING DATE: 2000-04-04

; NUMBER OF SEQ ID NOS: 3840

; SEQ ID NO 3313

; LENGTH: 458

; TYPE: PRT

; ORGANISM: M.catarrhalis

US-09-540-236-3313

Query Match 7.0%; Score 75; DB 4; Length 458;  
Best Local Similarity 24.4%; Pred. No. 6.7;  
Matches 52; Conservative 30; Mismatches 67; Indels 64; Gaps 13;

QY 3 KELLIAAVAFVAVSADPIHYDKI-TBEINK-AIDDAIAIEQSEITIDPMKVP---DHADK 57  
Db 228 KLSLLASIAF-----GIPVQDKYCEGITKIGQDVIYAKELGYTIKHGFAIRRHGIE 283  
QY 58 FERHVGIVDFKGLAMENIEARGLQKQGDANVKGEIGIVKAHLIGVHDDIVSMEYD 117  
Db 284 LRVHPTLIPSOALL-----ANVNG-----VKNVAMIDAHPLGQSLDYG 321  
QY 118 LAYKGLDHPHTHVISDIQFVVVLSL-----EISDEGNI-----TMTS-FEV 159  
Db 322 DGAGAG--ATASAVMADMDLIYVINADTPSDVPHSGFIPELSIDGILPADMTSGYYL 379  
QY 160 RFANVNVNHHIGLSILDPIFGVLSVDVLTAFQD 192  
Db 380 R-----LTVKDE-GVVLADT-TRLSD 399

## RESULT 92

US-09-252-991A-23213

; Sequence 23213, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 23213

; LENGTH: 482

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-23213

Query Match 7.0%; Score 75; DB 4; Length 482;  
Best Local Similarity 28.4%; Pred. No. 7.2;  
Matches 54; Conservative 21; Mismatches 57; Indels 58; Gaps 13;

QY 6 LIAAV-AFVAVSADPIHYDKITEEINKAIDDAIAIEQSEITIDPMKVPDHDADKPER---H 61  
Db 93 LVAAVEQVVEVDAPAAHV-----LLEASGDSRRAL-PGEVVDRLVVGVDLGEALADH 145  
QY 62 VOIVDFKGLAMENIEARGLQKQGDANVKGEIGIVKAHLIGVHDDIVSMEYDLYAK 121  
Db 146 LGLV---LQLAGSFAEAQGL-----FLAGAE--VAAHLL-----DRGEQ 179  
QY 122 LGLDHPHTHVISDIQFVVVLSL-EISDEGNITMTSFEVROFANVNVN-HIGGLSILDP- 177  
Db 180 AGEI-----AAVDLGNLGLNLAFF--HFGROFGNAFQLPTQQLDLADPFP 223  
QY 178 -IFGVLSVDL 186  
Db 224 QLFGKLADLL 233

## RESULT 93

US-09-252-991A-17386

; Sequence 17386, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 17386

; LENGTH: 508

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-17386

Query Match 7.0%; Score 75; DB 4; Length 508;  
Best Local Similarity 18.3%; Pred. No. 7.8;  
Matches 54; Conservative 38; Mismatches 105; Indels 98; Gaps 10;

QY 5 LLIAAVAFVAVSADPIHYDKI-----TEINKAIDDAIAA-----IPOSE----- 44  
Db 145 LLLVDLAGAGVVADEHFDLLVPLEEQVEQDEALGDVIGLGRHAGDVHQAHRHGG 204  
QY 45 ---TIDPMKVPDHDADKFERHVGIVDFKGLAMENIE----- 77  
Db 205 GVGLLDQQVLEIEGIEERHP--VDARAELGDFQLEFLDIAEIVRLFALDPLQFLQRAQ 262  
QY 78 ---ARGLKQKQKQ-----DANVKEEGIVKAHLIGVHDDIVSMEY 116  
Db 263 LCPAAAGORDAPRMRGACAGDDVARRVAVVADAGAGLGGVAGDVALDQVGLQVLEH 322  
QY 117 DL-AYKLGDLH-PTHVISDIQFVVVLSLEIS-----DEGNITMTSF 157  
Db 323 EVEREFLGDLDEVVHFAFAVAGLAAAAAAPAAGWAGDVLAGGBFLVAGVDGLPPAAAM 382  
QY 158 EVRQFANV-----VNHIGGLSILDPIFGVLSVDVLTAFQDITVRKEMTKVLA 203  
Db 383 VOHREVDIAPGNADLLAVLHVGNGTTPADGLDGLDVTVAPOQALAVHRAVLVA 437

## RESULT 94

US-09-107-532A-6946

; Sequence 6946, Application US/09107532A

; Patent No. 6583275

GENERAL INFORMATION:  
APPLICANT: LYNN A DOUCETTE-STAMM and David Bush  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
NUMBER OF SEQUENCES: 7310  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: GENOME THERAPEUTICS CORPORATION  
STREET: 100 Beaver Street  
CITY: Waltham  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02354  
COMPUTER READABLE FORM:  
MEDIUM TYPE: CD-ROM ISO9660  
COMPUTER: PC  
OPERATING SYSTEM: <Unknown>  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/107,532A  
FILING DATE: 30-Jun-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/085,598  
FILING DATE: 14 May 1998  
APPLICATION NUMBER: 60/051571  
FILING DATE: July 2, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Ariniello, Pamela Deneka  
REGISTRATION NUMBER: 40,489  
REFERENCE/DOCKET NUMBER: GTC-012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (781)893-8207  
TELEFAX: (781)893-8277  
INFORMATION FOR SEQ ID NO: 6946:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 729 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ORIGINAL SOURCE:  
ORGANISM: Enterococcus faecium  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (B) LOCATION 1...729  
SEQUENCE DESCRIPTION: SEQ ID NO: 6946:  
US-09-107-532A-6946

Query Match 7.0%; Score 75; DB 4; Length 729;  
Best Local Similarity 20.3%; Pred. No. 14;  
Matches 40; Conservative 38; Mismatches 89; Indels 30; Gaps 6;  
QY 11 AFVPSADPIHYDKITEIRKAIADDAIAESETID-----PMKVPDHADK----- 57  
DB 378 AFV-----EPVAFLEIDDPKRAQETTLAYHE-EGVDLKVTSQNDPTVSNIAARAGLPN 432  
QY 58 FERHVGIVDFKELAMRNIEAR-----GLKQKRGQDANVKGEIGVKAHLILGWHDDIV 112  
DB 433 YDAYVDLSQITEEMEVREAARHYTVFGRVSPQKKLLVNLKESGRTVANTGCGVNDVLA 492  
QY 113 SNEYDLAVKGLDHLHTTHVIGDIQDFVVALSLEISDEGNITMTSFVRQFANVNHIGGL 172  
DB 493 LREADCSIAMAEQDQATQIAN-----LVLLSDFTTLPEVLFEGRVNVNNTKVSIGI 545  
QY 173 SILDPIFGVLSVLTAI 189  
DB 546 PFIKTIYSFILSIICAV 562

RESULT 95  
US-08-433-522A-2  
; Sequence 2, Application US/08433522A  
; Patent No. 6013514  
; GENERAL INFORMATION:

APPLICANT: CHONG, Pele  
APPLICANT: THOMAS, Wayne  
APPLICANT: YANG, Yan Ping  
APPLICANT: LOOSMORE, Sheena  
APPLICANT: SIA, Dwo Yuan Charles  
APPLICANT: KLEIN, Michel  
TITLE OF INVENTION: HAEMOPHILUS OUTER MEMBRANE PROTEIN  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sim & McBurney  
STREET: 6TH Floor, 330 University Avenue  
CITY: Toronto  
STATE: Ontario  
COUNTRY: Canada  
ZIP: M5G 1R7  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/433,522A  
FILING DATE: 12-SEP-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: STEWART, Michael I  
REGISTRATION NUMBER: 24,973  
REFERENCE/DOCKET NUMBER: 1038-434 MIS:j.b  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (416) 595-1155  
TELEFAX: (416) 595-1163  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 797 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-433-522A-2

Query Match 7.0%; Score 75; DB 3; Length 797;  
Best Local Similarity 19.4%; Pred. No. 16;  
Matches 62; Conservative 49; Mismatches 88; Indels 120; Gaps 16;  
QY 2 MKFLIIAAVAF--VAVSADP-----IHYDKITEIRKAI-----DDAIAAI 40  
DB 1 MKKLLIASLLFGTTTTTFAAPFVAXDIRVDGVQGDLEQQIRASLPVRAGQRTDNDVANI 60  
QY 41 EOSEYI----DPKVPDHADKF-----ERHVGIVDFKG-----ELAMRNIEARGLKQM 84  
DB 61 VRSFLVSGRFDVKAHQEGDVLVWSVAKSTISDVKIKGNSVIPTEALKQNLDDANGFK-- 118  
QY 85 KEQGDANVKE-----EGIV-----KAHLILGVHDDIVSMEY 116  
DB 119 --VGDVLPREKLENEFAKSVKEHYASVGRYNATVEIVNTLPNNRAEILIQINEDDKAKLA 176  
QY 117 DLAYKLG-----DLHPTT-----HVISDIQDF-----V 139  
DB 177 SLTFKGNESVSSSTLQEQMELQPSDWKLGWKNKFEQAQFEKDLQSIIRDYLYLNGYAKA 236  
QY 140 VALSLEISDEG--NITMTSFVRQF-----ANVNVHIGGLSI-LDPIFGVLSVLTAFQ 191  
DB 237 TKYDVLQNDKTKVNTVDVNEGLQYDLRSARIIGNLGMKSALEPLLSALH-----LN 290  
QY 192 DTVRKEMTKVLAPAFKREL 210  
DB 291 DTFRRSDIADVENAIKAKL 309

RESULT 96  
US-08-433-522A-4  
; Sequence 4, Application US/08433522A  
; Patent No. 6013514  
; GENERAL INFORMATION:

APPLICANT: CHONG, Pele  
APPLICANT: THOMAS, Wayne  
APPLICANT: YANG, Yan Ping  
APPLICANT: LOOSMORE, Sheena  
APPLICANT: SIA, Dwo Yuan Charles  
APPLICANT: KLEIN, Michel  
TITLE OF INVENTION: HAEMOPHILUS OUTER MEMBRANE PROTEIN  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sim & McBurney  
STREET: 6TH Floor, 330 University Avenue  
CITY: Toronto  
STATE: Ontario  
COUNTRY: Canada  
ZIP: M5G 1R7  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/433,522A  
FILING DATE: 12-SEP-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: STEWART, Michael I  
REGISTRATION NUMBER: 24,973  
REFERENCE/DOCKET NUMBER: 1038-434 Mts:jb  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (416) 595-1155  
TELEFAX: (416) 595-1163  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 797 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-433-522A-4

Query Match 7.0%; Score 75; DB 3; Length 797;  
Best Local Similarity 19.4%; Pred. No. 16;  
Matches 62; Conservative 49; Mismatches 88; Indels 120; Gaps 16;  
QY 2 MKELIIAAVAF---VAVSADP-----IHYDKITEINKAI-----DDAIAAI 40  
Db 1 MKKLLIASLLEFGTTTTTFAAPFVAKDIRVDGVQGDLEQQIRASLFRAGQRTDNDVANI 60  
QY 41 EQSETI----DPMKVPDHDADF-----ERHVGIVDFPKG-----ELAMRNIEARGLKQM 84  
Db 61 VRSLSVSGRFDVKAHQEGDVLVSVVAKSIISDVKIKGNSVPTALKQNLNDANGFK-- 118  
QY 85 KRQGDANVKE-----EGIV-----KAHLIGVHDDIVSMY 116  
Db 119 --VGDVLIREKLNFAKSVKEHYASVGRYNATVEPIVNTLPNNRAELIQLINEDDKAKLA 176  
QY 117 DLAYKLG-----DLHPTT-----HVISDIQDF-----V 139  
Db 177 SLTFKGNESVSSSTLQEQMELQDPSWKLGNKFEQAQEKDQSLQSDIRDYLNNGYAKAI 236  
QY 140 VALSLEISDEG---NITMTSFEVRQF-----ANVVNHIGGLSI-LDPIFGVLSVLTAFIQ 191  
Db 237 TKTDVQLNDEKTKVNTVIDVNEGLQYDLRSARIIGNLGMASAEPLLSALH-----LN 290  
QY 192 DTVRKEMTKVLAPAFKREL 210  
Db 291 DTFRRSDIADVENAIAKAL 309

RESULT 97  
US-08-433-522A-6  
; Sequence 6, Application US/08433522A  
; Patent No. 6013514  
; GENERAL INFORMATION:

APPLICANT: CHONG, Pele  
APPLICANT: THOMAS, Wayne  
APPLICANT: YANG, Yan Ping  
APPLICANT: LOOSMORE, Sheena  
APPLICANT: SIA, Dwo Yuan Charles  
APPLICANT: KLEIN, Michel  
TITLE OF INVENTION: HAEMOPHILUS OUTER MEMBRANE PROTEIN  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sim & McBurney  
STREET: 6TH Floor, 330 University Avenue  
CITY: Toronto  
STATE: Ontario  
COUNTRY: Canada  
ZIP: M5G 1R7  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/433,522A  
FILING DATE: 12-SEP-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: STEWART, Michael I  
REGISTRATION NUMBER: 24,973  
REFERENCE/DOCKET NUMBER: 1038-434 Mts:jb  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (416) 595-1155  
TELEFAX: (416) 595-1163  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 797 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-433-522A-6

Query Match 7.0%; Score 75; DB 3; Length 797;  
Best Local Similarity 19.4%; Pred. No. 16;  
Matches 62; Conservative 49; Mismatches 88; Indels 120; Gaps 16;  
QY 2 MKELIIAAVAF---VAVSADP-----IHYDKITEINKAI-----DDAIAAI 40  
Db 1 MKKLLIASLLEFGTTTTTFAAPFVAKDIRVDGVQGDLEQQIRASLFRAGQRTDNDVANI 60  
QY 41 EQSETI----DPMKVPDHDADF-----ERHVGIVDFPKG-----ELAMRNIEARGLKQM 84  
Db 61 VRSLSVSGRFDVKAHQEGDVLVSVVAKSIISDVKIKGNSVPTALKQNLNDANGFK-- 118  
QY 85 KRQGDANVKE-----EGIV-----KAHLIGVHDDIVSMY 116  
Db 119 --VGDVLIREKLNFAKSVKEHYASVGRYNATVEPIVNTLPNNRAELIQLINEDDKAKLA 176  
QY 117 DLAYKLG-----DLHPTT-----HVISDIQDF-----V 139  
Db 177 SLTFKGNESVSSSTLQEQMELQDPSWKLGNKFEQAQEKDQSLQSDIRDYLNNGYAKAI 236  
QY 140 VALSLEISDEG---NITMTSFEVRQF-----ANVVNHIGGLSI-LDPIFGVLSVLTAFIQ 191  
Db 237 TKTDVQLNDEKTKVNTVIDVNEGLQYDLRSARIIGNLGMASAEPLLSALH-----LN 290  
QY 192 DTVRKEMTKVLAPAFKREL 210  
Db 291 DTFRRSDIADVENAIAKAL 309

RESULT 98  
US-09-135-166-2  
; Sequence 2, Application US/09135166  
; Patent No. 6083743  
; GENERAL INFORMATION:

APPLICANT: CHONG, Pele  
APPLICANT: THOMAS, Wayne  
APPLICANT: YANG, Yan Ping  
APPLICANT: LOOSMORE, Sheena  
APPLICANT: SIA, Dwo Yuan Charles  
APPLICANT: KLEIN, Michel  
TITLE OF INVENTION: HAEMOPHILUS OUTER MEMBRANE PROTEIN  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sim & McBurney  
STREET: 6TH Floor, 330 University Avenue  
CITY: Toronto  
STATE: Ontario  
COUNTRY: Canada  
ZIP: M5G 1R7  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/135,166  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/433,522  
FILING DATE: 12-SEP-1995  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: STEWART, Michael I  
REGISTRATION NUMBER: 24,973  
REFERENCE/DOCKET NUMBER: 1038-829 MIS:jb  
TELEPHONE: (416) 595-1155  
TELEFAX: (416) 595-1163  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 797 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-135-166-2

Query Match 7.0%; Score 75; DB 3; Length 797;  
Best Local Similarity 19.4%; Pred. No. 16;  
Matches 62; Conservative 49; Mismatches 88; Indels 120; Gaps 16;

QY	2	MKFLIIAAVAF---VAVSADP-----IHYDKITEINKAI-----DDATAAI	40
DB	1	MKLLIASLLFGTTTTFVFAAPFVAKDIRVDGVOGDEQQIRASLPVRAGQRTDNDVANI	60
QY	41	EOSETI-----DPMKVPDHDADF-----ERHVGIVDFPKG-----ELAMRNIEARGLKQM	84
DB	61	VRSLFVSGRFDVKAHQEGDVLVWSVAKSIISDVKIKGNSVITPEALKQNLDFGFK--	118
QY	85	KRQGDANYKGE-----EGIV-----KAHLIGVHDDIVSMY	116
DB	119	--VGDVLIREFKNEFAKSVKEHYASVGRYNATVEIVTLNPNRAEILIQINEDDKAKLA	176
QY	117	DLAYKLG-----DLHPTT-----HVISDIQDF-----V	139
DB	177	SLTFKGNESVSSSTLQEQMELOQFDSWKLWGNKFEQAQFEDQSIQIRDYLLNNGYAKAQI	236
QY	140	VALSLEISDEG---NITMTSEFVRQF---ANVNHIGGLSI-LDPIFGVLSDLVLTAFQ	191
DB	237	TKTDVQLNDEKTKVNTVDVNEGLQYDLRSARIIGNLGMSAELEPLLSALH-----LN	290
QY	192	DTVRKEMTKVLAPAFKREL	210
DB	291	DTFRSDIADVENAIAKAL	309

RESULT 99

US-09-135-166-4  
Sequence 4, Application US/09135166  
Patent No. 6083743  
GENERAL INFORMATION:  
APPLICANT: CHONG, Pele  
APPLICANT: THOMAS, Wayne  
APPLICANT: YANG, Yan Ping  
APPLICANT: LOOSMORE, Sheena  
APPLICANT: SIA, Dwo Yuan Charles  
APPLICANT: KLEIN, Michel  
TITLE OF INVENTION: HAEMOPHILUS OUTER MEMBRANE PROTEIN  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sim & McBurney  
STREET: 6TH Floor, 330 University Avenue  
CITY: Toronto  
STATE: Ontario  
COUNTRY: Canada  
ZIP: M5G 1R7  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/135,166  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/433,522  
FILING DATE: 12-SEP-1995  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: STEWART, Michael I  
REGISTRATION NUMBER: 24,973  
REFERENCE/DOCKET NUMBER: 1038-829 MIS:jb  
TELEPHONE: (416) 595-1155  
TELEFAX: (416) 595-1163  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 797 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-135-166-4

Query Match 7.0%; Score 75; DB 3; Length 797;  
Best Local Similarity 19.4%; Pred. No. 16;  
Matches 62; Conservative 49; Mismatches 88; Indels 120; Gaps 16;

QY	2	MKFLIIAAVAF---VAVSADP-----IHYDKITEINKAI-----DDATAAI	40
DB	1	MKLLIASLLFGTTTTFVFAAPFVAKDIRVDGVOGDEQQIRASLPVRAGQRTDNDVANI	60
QY	41	EOSETI-----DPMKVPDHDADF-----ERHVGIVDFPKG-----ELAMRNIEARGLKQM	84
DB	61	VRSLFVSGRFDVKAHQEGDVLVWSVAKSIISDVKIKGNSVITPEALKQNLDFGFK--	118
QY	85	KRQGDANYKGE-----EGIV-----KAHLIGVHDDIVSMY	116
DB	119	--VGDVLIREFKNEFAKSVKEHYASVGRYNATVEIVTLNPNRAEILIQINEDDKAKLA	176
QY	117	DLAYKLG-----DLHPTT-----HVISDIQDF-----V	139
DB	177	SLTFKGNESVSSSTLQEQMELOQFDSWKLWGNKFEQAQFEDQSIQIRDYLLNNGYAKAQI	236
QY	140	VALSLEISDEG---NITMTSEFVRQF---ANVNHIGGLSI-LDPIFGVLSDLVLTAFQ	191
DB	237	TKTDVQLNDEKTKVNTVDVNEGLQYDLRSARIIGNLGMSAELEPLLSALH-----LN	290
QY	192	DTVRKEMTKVLAPAFKREL	210



Db 291 DTFRRSDIADVENAIKAKL 309

237 TKTDVQLNDEKTKVNVTTIDVNEGLQYDLSRSARIIGNLGMGAELPLLSALH-----LN 290

QY 192 DTVRKEMTKVLAPAFKREL 210

Db 291 DTFRRSDIADVENAIKAKL 309

Search completed: August 6, 2004, 16:02:40

Job time : 24 secs

Db 291 DTFRRSDIADVENAIKAKL 309

RESULT 100

US-09-135-166-6

; Sequence 6, Application US/09135166

; Patent No. 6083743

; GENERAL INFORMATION:

; APPLICANT: CHONG, Pele

; APPLICANT: THOMAS, Wayne

; APPLICANT: YANG, Yan Ping

; APPLICANT: LOOSMORE, Sheena

; APPLICANT: SIA, Dwo Yuan Charles

; APPLICANT: KLEIN, Michel

; TITLE OF INVENTION: HAEMOPHILUS OUTER MEMBRANE PROTEIN

; NUMBER OF SEQUENCES: 55

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Sim & McBurney

; STREET: 6TH Floor, 330 University Avenue

; CITY: Toronto

; STATE: Ontario

; COUNTRY: Canada

; ZIP: M5G 1R7

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/135,166

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/433,522

; FILING DATE: 12-SEP-1995

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: STEWART, Michael I

; REGISTRATION NUMBER: 24,973

; REFERENCE/DOCKET NUMBER: 1038-829 MTS:jb

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (416) 595-1155

; TELEFAX: (416) 595-1163

; INFORMATION FOR SEQ ID NO: 6:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 797 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-09-135-166-6

Query Match 7.0%; Score 75; DB 3; Length 797;

Best Local Similarity 19.4%; Pred. No. 16;

Matches 62; Conservative 49; Mismatches 88; Indels 120; Gaps 16;

QY 2 MKFLLIAAVAF---VAVSADP-----IHYDKITEINKAI-----DDAIAAI 40

Db 1 MKKLLIASLFGTTTTFVFAAPPFAKDIRVDGVQGLDLEQQIRASLPVRAGQRTDNDVANI 60

QY 41 EQSETI----DPMKVPDHDKFE-----ERHVGIVDFKQ-----ELAMENIEARGLKQM 84

Db 61 VRSLFVSGRFDVVAHQEGDVLVSVVAKSIISDVKIKGNSVIPTALKONLDANGFK-- 118

QY 85 KRGQDANVKGE-----EGIV-----KAHLIGVHDDIVSMEY 116

Db 119 --VGDVLIREKLNFAKSVKHYASVGRYNATVEPIVNTLPNNRABILIQINEDDKAKLA 176

QY 117 DLAYKLG-----DLHFTT-----HVISDIQDF-----V 139

Db 177 SLTFKGNESVSSLTQEQMELQDSWWKLWGNKFEQAQFKQLQSIRDYLLNNGYAKAQI 236

QY 140 VALSLRISDEG---NITMTSFVRQF-----ANVNHIGGLSI-LDPIFGVLSDLVLTAFQ 191



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OM protein - protein search, using sw model

Run on: August 6, 2004, 16:01:47 ; Search time 45 Seconds

(without alignments)  
1484.766 Million cell updates/sec

Title: US-10-024-955-7

Perfect score: 1068

Sequence: 1 MMKFLIIAAVAVASADPI.....VRKMTKVLPAFKRELEKN 213

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1291235 seqs, 313682936 residues

Total number of hits satisfying chosen parameters: 1291235

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications AA.\*

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17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1068	100.0	213	10	US-09-847-208-77 Sequence 77, Appl
2	1068	100.0	213	13	US-10-024-955-7 Sequence 7, Appl
3	962	90.1	215	10	US-09-847-208-85 Sequence 85, Appl
4	962	90.1	215	13	US-10-024-955-2 Sequence 2, Appl
5	103	9.6	436	12	US-10-282-122A-72488 Sequence 72488, A
6	96	9.0	294	9	US-09-898-570-28 Sequence 28, Appl
7	96	9.0	294	9	US-09-898-570-30 Sequence 30, Appl
8	96	9.0	294	9	US-09-898-570-32 Sequence 32, Appl
9	96	9.0	294	10	US-09-839-446-28 Sequence 28, Appl
10	96	9.0	294	10	US-09-839-446-30 Sequence 30, Appl
11	96	9.0	294	15	US-09-839-446-32 Sequence 32, Appl
12	96	9.0	294	15	US-10-012-697-1496 Sequence 1496, Ap
13	96	9.0	314	12	US-10-220-120-411 Sequence 411, App
14	96	9.0	314	16	US-10-363-829-449 Sequence 449, App
15	95	8.9	293	12	US-10-424-599-241872 Sequence 241872,

15	91.5	8.6	1397	12	US-10-282-122A-54874	Sequence 54874, A
17	90.5	8.5	541	15	US-10-369-493-9287	Sequence 9287, Ap
18	90.5	8.5	547	15	US-10-369-493-17524	Sequence 17524, A
19	90.5	8.5	944	12	US-10-282-122A-47806	Sequence 47806, A
20	90	8.4	1786	9	US-09-742-096-3	Sequence 3, Appli
21	90	8.4	1787	12	US-10-415-253-2	Sequence 2, Appli
22	88.5	8.3	405	12	US-09-925-298-445	Sequence 445, App
23	88.5	8.3	405	14	US-10-102-806-445	Sequence 445, App
24	88.5	8.3	459	14	US-10-177-293-140	Sequence 140, App
25	88	8.2	393	14	US-10-190-279-2	Sequence 2, Appli
26	88	8.2	436	10	US-09-769-744A-68	Sequence 68, Appl
27	88	8.2	436	12	US-10-282-122A-74126	Sequence 74126, A
28	88	8.2	436	14	US-10-190-379-5	Sequence 5, Appli
29	88	8.2	713	12	US-10-282-122A-71455	Sequence 71455, A
30	87.5	8.2	1361	15	US-10-369-493-3209	Sequence 3209, Ap
31	87	8.1	436	12	US-10-282-122A-74394	Sequence 74394, A
32	86.5	8.1	660	9	US-10-282-122A-77547	Sequence 77547, A
33	86.5	8.1	664	9	US-09-815-242-5470	Sequence 5470, Ap
34	86.5	8.1	664	9	US-09-815-242-12179	Sequence 12179, A
35	86	8.1	527	15	US-10-369-493-7810	Sequence 7810, Ap
36	85.5	8.0	903	15	US-10-369-493-1048	Sequence 1048, Ap
37	85.5	8.0	1018	15	US-10-108-260A-2958	Sequence 2958, Ap
38	85.5	8.0	1396	12	US-10-282-122A-55213	Sequence 55213, A
39	85.5	8.0	1441	12	US-10-346-863-6	Sequence 6, Appli
40	85.5	8.0	1441	16	US-10-408-765A-824	Sequence 824, App
41	85.5	8.0	2780	12	US-10-423-483-2	Sequence 2, Appli
42	85.5	8.0	2780	15	US-10-220-587-2	Sequence 2, Appli
43	85	8.0	878	15	US-10-369-493-18437	Sequence 18437, A
44	84.5	7.9	380	15	US-10-369-493-7985	Sequence 7986, Ap
45	84.5	7.9	817	12	US-10-282-122A-71072	Sequence 71072, A
46	83.5	7.8	281	12	US-10-424-599-160426	Sequence 160426, A
47	83.5	7.8	360	16	US-10-408-765A-1398	Sequence 1398, Ap
48	83.5	7.8	405	16	US-10-437-963-168034	Sequence 168034, A
49	83.5	7.8	412	9	US-09-738-626-3526	Sequence 3526, Ap
50	83.5	7.8	548	12	US-10-282-122A-78505	Sequence 78505, A
51	83.5	7.8	775	15	US-10-437-963-108571	Sequence 108671, A
52	83	7.8	551	16	US-10-437-963-134622	Sequence 134622, A
53	83	7.8	629	15	US-10-369-493-11797	Sequence 11797, A
54	83	7.8	630	15	US-10-369-493-14521	Sequence 14521, A
55	83	7.8	633	15	US-10-369-493-14213	Sequence 14213, A
56	83	7.8	633	15	US-10-369-493-14987	Sequence 14987, A
57	83	7.8	633	15	US-10-369-493-15263	Sequence 15263, A
58	83	7.8	633	16	US-10-389-566-1416	Sequence 1416, Ap
59	83	7.8	633	16	US-10-389-566-1559	Sequence 1559, Ap
60	83	7.8	845	9	US-09-874-923-110	Sequence 110, App
61	83	7.8	845	9	US-09-991-496-110	Sequence 110, App
62	82.5	7.7	856	16	US-10-437-963-106024	Sequence 106024, A
63	82.5	7.7	1399	15	US-10-369-493-13650	Sequence 13650, A
64	82.5	7.7	2339	15	US-10-116-275-244	Sequence 244, App
65	82.5	7.7	2498	12	US-10-092-900A-218	Sequence 218, App
66	82	7.7	397	15	US-10-289-762-894	Sequence 894, App
67	82	7.7	461	9	US-09-841-132-399	Sequence 399, App
68	82	7.7	461	12	US-10-282-122A-54983	Sequence 54983, A
69	82	7.7	785	9	US-09-738-626-5445	Sequence 5445, Ap
70	81.5	7.6	445	12	US-10-282-122A-49547	Sequence 49547, A
71	81.5	7.6	547	14	US-10-046-649-2	Sequence 2, Appli
72	81.5	7.6	745	15	US-10-369-493-2657	Sequence 2657, Ap
73	81.5	7.6	1279	12	US-10-282-122A-52455	Sequence 52455, A
74	81	7.6	222	12	US-10-424-599-197313	Sequence 197313, A
75	81	7.6	296	12	US-10-424-599-239257	Sequence 239257, A
76	81	7.6	385	10	US-09-991-138-12	Sequence 12, Appl
77	81	7.6	442	15	US-10-369-493-10081	Sequence 10081, A
78	81	7.6	545	12	US-10-282-122A-48944	Sequence 48944, A
79	81	7.6	767	12	US-10-221-625-23	Sequence 23, Appl
80	80.5	7.5	245	12	US-10-282-122A-57903	Sequence 57903, A
81	80.5	7.5	323	12	US-10-424-599-197424	Sequence 197424, A
82	80.5	7.5	324	16	US-10-437-963-166236	Sequence 166236, A
83	80.5	7.5	540	15	US-10-369-493-181	Sequence 181, App
84	80.5	7.5	547	12	US-10-282-122A-56251	Sequence 56251, A
85	80	7.5	160	15	US-10-369-493-5550	Sequence 5550, Ap
86	80	7.5	600	15	US-10-437-963-144132	Sequence 144132, A
87	80	7.5	720	15	US-10-369-493-10217	Sequence 10217, A
88	80	7.5	831	9	US-09-738-626-5468	Sequence 5468, Ap

Sequence 126, App  
Sequence 68540, A  
Sequence 73215, A  
Sequence 75259, A  
Sequence 76037, A  
Sequence 44041, A  
Sequence 10901, A  
Sequence 53037, A  
Sequence 148847  
Sequence 126, App  
Sequence 150, App  
Sequence 149, App

## ALIGNMENTS

RESULT 1  
US-09-847-208-77  
; Sequence 77, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: UC67.002A  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 77  
; LENGTH: 213  
; TYPE: PRT  
; ORGANISM: Dermatophagoides farinae (House-dust mite)  
US-09-847-208-77  
Query Match 100.0%; Score 1068; DB 10; Length 213;  
Best Local Similarity 100.0%; Pred. No. 3.8e-102;  
Matches 213; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 1 MKKFLIIAAVAFVAVSADPIHYDKITEINKAIDDAIAAEQSETIDPMKVPDADKFER 60  
QY 61 HVGIVDFKGLAMRNIEARGLQKMRQGDANVKGEIGVKAHLIGVHDDIVSMEYDLAY 120  
DB 61 HVGIVDFKGLAMRNIEARGLQKMRQGDANVKGEIGVKAHLIGVHDDIVSMEYDLAY 120  
QY 121 KLGDLPHTTHVTSIDQDFVVALSLSEISDEGNITMTSEVROFANVNVHIGLSILDPIFG 180  
DB 121 KLGDLPHTTHVTSIDQDFVVALSLSEISDEGNITMTSEVROFANVNVHIGLSILDPIFG 180  
QY 181 VLSDLVLTAFQDVTVRKEMTKVLAPAFKRELEKN 213  
DB 181 VLSDLVLTAFQDVTVRKEMTKVLAPAFKRELEKN 213

## RESULT 2

US-10-024-955-7  
; Sequence 7, Application US/10024955  
; Publication No. US20020168373A1  
; GENERAL INFORMATION:  
; APPLICANT: Wayne R. Thomas and Kaw-Yan Chua  
; TITLE OF INVENTION: Allergenic Proteins and Peptides From  
; TITLE OF INVENTION: House Dust Mite and Uses Therefor  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: LAHIVE & COCKFIELD, LLP  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts

COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/024,955  
FILING DATE: 19-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/553,336A  
FILING DATE: 10-JUN-1996  
APPLICATION NUMBER: US/08/1,540  
FILING DATE: 22-JUNE-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: IMI-032CP2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)742-4214  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 213 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
US-10-024-955-7

Query Match 100.0%; Score 1068; DB 13; Length 213;  
Best Local Similarity 100.0%; Pred. No. 3.8e-102;  
Matches 213; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 1 MKKFLIIAAVAFVAVSADPIHYDKITEINKAIDDAIAAEQSETIDPMKVPDADKFER 60  
QY 61 HVGIVDFKGLAMRNIEARGLQKMRQGDANVKGEIGVKAHLIGVHDDIVSMEYDLAY 120  
DB 61 HVGIVDFKGLAMRNIEARGLQKMRQGDANVKGEIGVKAHLIGVHDDIVSMEYDLAY 120  
QY 121 KLGDLPHTTHVTSIDQDFVVALSLSEISDEGNITMTSEVROFANVNVHIGLSILDPIFG 180  
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QY 181 VLSDLVLTAFQDVTVRKEMTKVLAPAFKRELEKN 213  
DB 181 VLSDLVLTAFQDVTVRKEMTKVLAPAFKRELEKN 213

## RESULT 3

US-09-847-208-85  
; Sequence 85, Application US/09847208  
; Publication No. US20030082190A1  
; GENERAL INFORMATION:  
; APPLICANT: Saxon, Andrew  
; APPLICANT: Zhang, Ke  
; APPLICANT: Zhu, Daocheng  
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF  
; TITLE OF INVENTION: IGE-MEDIATED ALLERGIC DISEASES  
; FILE REFERENCE: UC67.002A  
; CURRENT APPLICATION NUMBER: US/09/847,208  
; CURRENT FILING DATE: 2001-05-01  
; NUMBER OF SEQ ID NOS: 177  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 85  
; LENGTH: 215  
; TYPE: PRT  
; ORGANISM: Dermatophagoides pteronysinus (House-dust mite)  
US-09-847-208-85

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Query Match          90.1%; Score 962; DB 10; Length 215;
Best Local Similarity 85.9%; Pred. No. 3.6e-91;
Matches 183; Conservative 18; Mismatches 12; Indels 0; Gaps 0;

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   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 HGIHIDLKGLDMENIQVRGLQMKRVGDANVKSESDGVVKAHLLVGVHDDVVSMYDILAY 120
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Qy 121 KLGLDLPHTTHVISIDQDFVWALSLEISDEGNITMTSFVRQFANVNVHIGGLSILDPITFG 180
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 121 KLGLDLPHTTHVISIDQDFVWLSLEVSEGNMTLTSFEVRQFANVNVHIGGLSILDPIFA 180
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 181 VLSVLTAFIQTIVRKEMTKVLAPAFKRELEKN 213
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 181 VLSVLTAFIQTIVRAEMTKVLAPAFKKELERN 213
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 4
US-10-024-955-2
; Sequence 2, Application US/10024955
; Publication No. US20020168373A1
; GENERAL INFORMATION:
; APPLICANT: Wayne R. Thomas and Kaw-Yan Chua
; TITLE OF INVENTION: Allergenic Proteins and Peptides From
; House Dust Mite and Uses Therefor
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/024,955
; FILING DATE: 19-Dec-2001
; CLASSIFICATION: {unknown}
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/553,336A
; FILING DATE: 10-JUN-1996
; APPLICATION NUMBER: US 08/081,540
; FILING DATE: 22-JUNE-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: IMI-032CP2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 742-4214
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 215 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:

US-10-024-955-2

Query Match          90.1%; Score 962; DB 13; Length 215;
Best Local Similarity 85.9%; Pred. No. 3.6e-91;
Matches 183; Conservative 18; Mismatches 12; Indels 0; Gaps 0;

Qy 1 MMKELLIAAVAFVAVSDPIHYDKITTEINKAIDAIAAIBQSETIDPMKVPDHDADKFER 60

```

QY 90 AN-----VKGEIGIVK-----AHLIGVHDDIV-----SMEDYL-AYK 121  
 Db 78 IATMEADVIVFVSAKSGITDADEYAKILYRTHKPVILAVKNVDNPEMSAIYDFYALG 137  
 QY 122 LGDLHP--TTHVI--SLIQFVW-ALSLEISDEGNITMTSFEVRQF-----ANV 166  
 Db 138 LGDPPVSSAGIGTGVLDVAIVNLTPEAQEE-----SDIIFKSLIGRPNVGKSLI 191  
 QY 167 NHIGGLS--ILDPIFGVLSVLTALFQDTVRKEMTKV 201  
 Db 192 NAILGEDRVIASPVAGITRDAIDTFTTDEGQEFMI 228

RESULT 6  
 US-09-898-570-28  
 ; Sequence 28, Application US/09898570  
 ; Patent No. US20020123612A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GERLACH, VALERIE L.  
 ; APPLICANT: ELLERMAN, KAREN  
 ; APPLICANT: MACDOUGALL, JOHN R.  
 ; APPLICANT: SMITHSON, GLENDA  
 ; TITLE OF INVENTION: NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND  
 ; TITLE OF INVENTION: METHODS OF USING THE SAME  
 ; FILE REFERENCE: 15966-776CIP  
 ; CURRENT APPLICATION NUMBER: US/09/898,570  
 ; CURRENT FILING DATE: 2001-07-03  
 ; PRIOR APPLICATION NUMBER: 60/198,293  
 ; PRIOR FILING DATE: 2000-04-19  
 ; PRIOR APPLICATION NUMBER: 60/198,645  
 ; PRIOR FILING DATE: 2000-04-20  
 ; PRIOR APPLICATION NUMBER: 60/210,809  
 ; PRIOR FILING DATE: 2000-06-09  
 ; PRIOR APPLICATION NUMBER: 60/199,476  
 ; PRIOR FILING DATE: 2000-04-26  
 ; PRIOR APPLICATION NUMBER: 60/200,025  
 ; PRIOR FILING DATE: 2000-04-26  
 ; PRIOR APPLICATION NUMBER: 60/224,610  
 ; PRIOR FILING DATE: 2000-08-11  
 ; PRIOR APPLICATION NUMBER: 60/200,024  
 ; PRIOR FILING DATE: 2000-04-26  
 ; PRIOR APPLICATION NUMBER: 60/199,880  
 ; PRIOR FILING DATE: 2000-04-26  
 ; PRIOR APPLICATION NUMBER: 60/218,591  
 ; PRIOR FILING DATE: 2000-07-17  
 ; PRIOR APPLICATION NUMBER: 60/271,814  
 ; PRIOR FILING DATE: 2001-02-27  
 ; PRIOR APPLICATION NUMBER: 60/215,855  
 ; PRIOR FILING DATE: 2000-07-03  
 ; PRIOR APPLICATION NUMBER: 09/839,446  
 ; NUMBER OF SEQ ID NOS: 58  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 28  
 ; LENGTH: 294  
 ; TYPE: PRT  
 ; ORGANISM: Unknown Organism  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Unknown Organism: POLYX  
 ; OTHER INFORMATION: h\_nh0778p17\_A  
 US-09-898-570-28

Query Match 9.0%; Score 96; DB 9; Length 294;  
 Best Local Similarity 23.8%; Pred. No. 0.23;  
 Matches 44; Conservative 31; Mismatches 59; Indels 52; Gaps 10;  
 QY 27 BEINKAIDAAIAAISOSETID-PMKV-----PDHAKDFERHVGIVDF-----KGE- 70  
 Db 103 EYINSLNDLVKEVKKSEVNGPSSVVTILKSKQAAMP-RHFQIMFIYNDTIAAKQEK 161  
 QY 71 ---LAWRNIARG-----LQMKRQGDANYKGE-----GIVKAHL--LIGVHDDIVS 113

Db 162 CKTFILRQLQEVAGKEMSEEDVNDMLHQKWEVFNESLLTEINITKAQLSEIQRKHELVN 221  
 QY 114 MEYDLAYKLGDLHPHTHVISDIQFVVALSLEISDEG-----NITWTSFEVRQFANVNH 169  
 Db 222 LE-----NQIKDLRDLFIQISLLVEEQGESINNIEMTNSTKEYVYNTKEK 267  
 QY 170 GGLSI 174  
 Db 268 FGLAV 272

RESULT 7  
 US-09-898-570-30  
 ; Sequence 30, Application US/09898570  
 ; Patent No. US20020123612A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GERLACH, VALERIE L.  
 ; APPLICANT: ELLERMAN, KAREN  
 ; APPLICANT: MACDOUGALL, JOHN R.  
 ; APPLICANT: SMITHSON, GLENDA  
 ; TITLE OF INVENTION: NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND  
 ; TITLE OF INVENTION: METHODS OF USING THE SAME  
 ; FILE REFERENCE: 15966-776CIP  
 ; CURRENT APPLICATION NUMBER: US/09/898,570  
 ; CURRENT FILING DATE: 2001-07-03  
 ; PRIOR APPLICATION NUMBER: 60/198,293  
 ; PRIOR FILING DATE: 2000-04-19  
 ; PRIOR APPLICATION NUMBER: 60/198,645  
 ; PRIOR FILING DATE: 2000-04-20  
 ; PRIOR APPLICATION NUMBER: 60/210,809  
 ; PRIOR FILING DATE: 2000-06-09  
 ; PRIOR APPLICATION NUMBER: 60/199,476  
 ; PRIOR FILING DATE: 2000-04-26  
 ; PRIOR APPLICATION NUMBER: 60/200,025  
 ; PRIOR FILING DATE: 2000-04-26  
 ; PRIOR APPLICATION NUMBER: 60/224,610  
 ; PRIOR FILING DATE: 2000-08-11  
 ; PRIOR APPLICATION NUMBER: 60/200,024  
 ; PRIOR FILING DATE: 2000-04-26  
 ; PRIOR APPLICATION NUMBER: 60/199,880  
 ; PRIOR FILING DATE: 2000-04-26  
 ; PRIOR APPLICATION NUMBER: 60/218,591  
 ; PRIOR FILING DATE: 2000-07-17  
 ; PRIOR APPLICATION NUMBER: 60/271,814  
 ; PRIOR FILING DATE: 2001-02-27  
 ; PRIOR APPLICATION NUMBER: 60/215,855  
 ; PRIOR FILING DATE: 2000-07-03  
 ; PRIOR APPLICATION NUMBER: 09/839,446  
 ; NUMBER OF SEQ ID NOS: 58  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 30  
 ; LENGTH: 294  
 ; TYPE: PRT  
 ; ORGANISM: Unknown Organism  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Unknown Organism: POLYX  
 ; OTHER INFORMATION: hnh0778p17\_A1  
 US-09-898-570-30

Query Match 9.0%; Score 96; DB 9; Length 294;  
 Best Local Similarity 23.8%; Pred. No. 0.23;  
 Matches 44; Conservative 31; Mismatches 58; Indels 52; Gaps 10;  
 QY 27 BEINKAIDAAIAAISOSETID-PMKV-----PDHAKDFERHVGIVDF-----KGE- 70  
 Db 103 EYINSLNDLVKEVKKSEVNGPSSVVTILKSKQAAMP-RHFQIMFIYNDTIAAKQEK 161  
 QY 71 ---LAWRNIARG-----LQMKRQGDANYKGE-----GIVKAHL--LIGVHDDIVS 113  
 Db 162 CKTFILRQLQEVAGKEMSEEDVNDMLHQKWEVFNESLLTEINITKAQLSEIQRKHELVN 221  
 QY 114 MEYDLAYKLGDLHPHTHVISDIQFVVALSLEISDEG-----NITWTSFEVRQFANVNH 169

Db 222 LE-----NQIKDLRLDFIQISLLVEEQGESINNIEMTVNSTKEYVNTKEK 267  
QY 170 GGLSI 174  
Db 268 FGLAV 272  
RESULT 8  
US-09-898-570-32  
; Sequence 32, Application US/09898570  
; Patent No. US20020123612A1  
; GENERAL INFORMATION:  
; APPLICANT: GERLACH, VALERIE L.  
; APPLICANT: ELLERMAN, KAREN  
; APPLICANT: MACDOUGALL, JOHN R.  
; APPLICANT: SMITHSON, GLENDA  
; TITLE OF INVENTION: NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND  
; TITLE OF INVENTION: METHODS OF USING THE SAME  
; FILE REFERENCE: 15966-776CIP  
; CURRENT APPLICATION NUMBER: US/09/898,570  
; CURRENT FILING DATE: 2001-07-03  
; PRIOR APPLICATION NUMBER: 60/198,293  
; PRIOR FILING DATE: 2000-04-19  
; PRIOR APPLICATION NUMBER: 60/198,645  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: 60/210,809  
; PRIOR FILING DATE: 2000-06-09  
; PRIOR APPLICATION NUMBER: 60/199,476  
; PRIOR FILING DATE: 2000-04-26  
; PRIOR APPLICATION NUMBER: 60/200,025  
; PRIOR FILING DATE: 2000-04-26  
; PRIOR APPLICATION NUMBER: 60/224,610  
; PRIOR FILING DATE: 2000-08-11  
; PRIOR APPLICATION NUMBER: 60/200,024  
; PRIOR FILING DATE: 2000-04-26  
; PRIOR APPLICATION NUMBER: 60/199,880  
; PRIOR FILING DATE: 2000-04-26  
; PRIOR APPLICATION NUMBER: 60/218,591  
; PRIOR FILING DATE: 2000-07-17  
; PRIOR APPLICATION NUMBER: 60/271,814  
; PRIOR FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: 60/215,855  
; PRIOR FILING DATE: 2000-07-03  
; PRIOR APPLICATION NUMBER: 09/839,446  
; PRIOR FILING DATE: 2001-04-19  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 32  
; LENGTH: 294  
; TYPE: PRT  
; ORGANISM: Unknown Organism  
; FEATURE:  
; OTHER INFORMATION: Description of Unknown Organism: POLYX  
; OTHER INFORMATION: CG55655\_02  
US-09-898-570-32

Query Match 9.0%; Score 96; DB 9; Length 294;  
Best Local Similarity 23.8%; Pred. No. 0.23;  
Matches 44; Conservative 31; Mismatches 58; Indels 52; Gaps 10;  
QY 27 EEINKAIDDAIAAEQSETID-PMKV-----PDHAKFERHVGIVDF-----KGE- 70  
Db 103 EYINRSLNDLVKEVKKSEVNGSPSVVTRILKSOHAAMF-RHQOIMFYNDTIAAKQEK 161  
QY 71 ---LAMNIEARG-----LKQMKQGDANVKGE-----GIVKAHL--LIGVHDDIVS 113  
Db 162 CKTFILRQLEVAGKEMSEEDVNDMLHQGWKVEFVFNESLLTEINITKAQLSEIQRHKELVN 221  
QY 114 MEYDLAYKGLDHPHTTHVSDIQDFVVALSLEISDEG-----NITMTSFEVROFANVNH 169  
Db 222 LE-----NQIKDLRLDFIQISLLVEEQGESINNIEMTVNSTKEYVNTKEK 267

QY 170 GGLSI 174  
Db 268 FGLAV 272  
RESULT 9  
US-09-839-446-28  
; Sequence 28, Application US/09839446  
; Publication No. US20030050232A1  
; GENERAL INFORMATION:  
; APPLICANT: GERLACH, VALERIE L.  
; APPLICANT: ELLERMAN, KAREN  
; APPLICANT: MACDOUGALL, JOHN R.  
; APPLICANT: SMITHSON, GLENDA  
; TITLE OF INVENTION: NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND  
; TITLE OF INVENTION: METHODS OF USING THE SAME  
; FILE REFERENCE: 15966-776  
; CURRENT APPLICATION NUMBER: US/09/839,446  
; CURRENT FILING DATE: 2001-04-19  
; PRIOR APPLICATION NUMBER: 60/198,293  
; PRIOR FILING DATE: 2000-04-19  
; PRIOR APPLICATION NUMBER: 60/198,645  
; PRIOR FILING DATE: 2000-04-20  
; PRIOR APPLICATION NUMBER: 60/210,809  
; PRIOR FILING DATE: 2000-06-09  
; PRIOR APPLICATION NUMBER: 60/199,476  
; PRIOR FILING DATE: 2000-04-26  
; PRIOR APPLICATION NUMBER: 60/200,025  
; PRIOR FILING DATE: 2000-04-26  
; PRIOR APPLICATION NUMBER: 60/224,610  
; PRIOR FILING DATE: 2000-08-11  
; PRIOR APPLICATION NUMBER: 60/200,024  
; PRIOR FILING DATE: 2000-04-26  
; PRIOR APPLICATION NUMBER: 60/199,880  
; PRIOR FILING DATE: 2000-04-26  
; PRIOR APPLICATION NUMBER: 60/218,591  
; PRIOR FILING DATE: 2000-07-17  
; PRIOR APPLICATION NUMBER: 60/271,814  
; PRIOR FILING DATE: 2001-02-27  
; NUMBER OF SEQ ID NOS: 49  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 28  
; LENGTH: 294  
; TYPE: PRT  
; ORGANISM: Unknown Organism  
; FEATURE:  
; OTHER INFORMATION: Description of Unknown Organism: POLYX  
; OTHER INFORMATION: h\_ph0778p17\_A  
US-09-839-446-28

Query Match 9.0%; Score 96; DB 10; Length 294;  
Best Local Similarity 23.8%; Pred. No. 0.23;  
Matches 44; Conservative 31; Mismatches 58; Indels 52; Gaps 10;  
QY 27 EEINKAIDDAIAAEQSETID-PMKV-----PDHAKFERHVGIVDF-----KGE- 70  
Db 103 EYINRSLNDLVKEVKKSEVNGSPSVVTRILKSOHAAMF-RHQOIMFYNDTIAAKQEK 161  
QY 71 ---LAMNIEARG-----LKQMKQGDANVKGE-----GIVKAHL--LIGVHDDIVS 113  
Db 162 CKTFILRQLEVAGKEMSEEDVNDMLHQGWKVEFVFNESLLTEINITKAQLSEIQRHKELVN 221  
QY 114 MEYDLAYKGLDHPHTTHVSDIQDFVVALSLEISDEG-----NITMTSFEVROFANVNH 169  
Db 222 LE-----NQIKDLRLDFIQISLLVEEQGESINNIEMTVNSTKEYVNTKEK 267  
QY 170 GGLSI 174  
Db 268 FGLAV 272

RESULT 10  
US-09-839-446-30

; Sequence 30, Application US/09839446  
; Publication No. US20030050232A1

; GENERAL INFORMATION:

; APPLICANT: GERLACH, VALERIE L.

; APPLICANT: ELLERMAN, KAREN

; APPLICANT: MACDOUGALL, JOHN R.

; APPLICANT: SMITHSON, GLENDA

; TITLE OF INVENTION: NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND  
; METHODS OF USING THE SAME

; FILE REFERENCE: 15966-776

; CURRENT APPLICATION NUMBER: US/09/839,446

; CURRENT FILING DATE: 2001-04-19

; PRIOR APPLICATION NUMBER: 60/198,293

; PRIOR FILING DATE: 2000-04-19

; PRIOR APPLICATION NUMBER: 60/198,645

; PRIOR FILING DATE: 2000-04-20

; PRIOR APPLICATION NUMBER: 60/210,809

; PRIOR FILING DATE: 2000-06-09

; PRIOR APPLICATION NUMBER: 60/199,476

; PRIOR FILING DATE: 2000-04-26

; PRIOR APPLICATION NUMBER: 60/200,025

; PRIOR FILING DATE: 2000-04-26

; PRIOR APPLICATION NUMBER: 60/224,610

; PRIOR FILING DATE: 2000-08-11

; PRIOR APPLICATION NUMBER: 60/200,024

; PRIOR FILING DATE: 2000-04-26

; PRIOR APPLICATION NUMBER: 60/199,880

; PRIOR FILING DATE: 2000-04-26

; PRIOR APPLICATION NUMBER: 60/218,591

; PRIOR FILING DATE: 2000-07-17

; PRIOR APPLICATION NUMBER: 60/271,814

; PRIOR FILING DATE: 2001-02-27

; NUMBER OF SEQ ID NOS: 49

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 30

; LENGTH: 294

; TYPE: PRT

; ORGANISM: Unknown Organism

; FEATURE:

; OTHER INFORMATION: Description of Unknown Organism: POLYX

; OTHER INFORMATION: hh0778p17\_A1

US-09-839-446-30

Query Match 9.0%; Score 96; DB 10; Length 294;

Best Local Similarity 23.8%; Pred. No. 0.23;

Matches 44; Conservative 31; Mismatches 58; Indels 52; Gaps 10;

QY 27 EEINKAIDDAIAAEQSETID-PMKV-----PHADKFERHVGIVDF-----KGE- 70

DB 103 EYINSLNDLVKEVKSEVNGPSSVTRILKSQAAMP-RHFOQIMFYNDTIAAKQEK 161

QY 71 ---LAMRNIEARG-----LKQMKRQGDANVKGE-----GIVKAHL--LIGVHDDIVS 113

DB 162 CXTFILRQLEVAGKEMSEEDVNDMLHQKWEVFNESLLTEINITKAQLSEIEQRHKLNV 221

QY 114 MEYDLAYKLGDLHPHTHVISDIQDFVALSLEISDEG-----NITMTSFEVRQFANVNH 169

DB 222 LE-----NQIKDLRLDFIQISLLVEEQGESINNIENTVNSTKEYVYVNTK 267

QY 170 GGLSI 174

DB 268 FGLAV 272

RESULT 11

US-09-839-446-32

; Sequence 32, Application US/09839446

; Publication No. US20030050232A1

; GENERAL INFORMATION:

; APPLICANT: GERLACH, VALERIE L.

; APPLICANT: ELLERMAN, KAREN

; APPLICANT: MACDOUGALL, JOHN R.

; APPLICANT: SMITHSON, GLENDA

; TITLE OF INVENTION: NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES ENCODING THEM AND  
; METHODS OF USING THE SAME

; FILE REFERENCE: 15966-776

; CURRENT APPLICATION NUMBER: US/09/839,446

; CURRENT FILING DATE: 2001-04-19

; PRIOR APPLICATION NUMBER: 60/198,293

; PRIOR FILING DATE: 2000-04-19

; PRIOR APPLICATION NUMBER: 60/198,645

; PRIOR FILING DATE: 2000-04-20

; PRIOR APPLICATION NUMBER: 60/210,809

; PRIOR FILING DATE: 2000-06-09

; PRIOR APPLICATION NUMBER: 60/199,476

; PRIOR FILING DATE: 2000-04-26

; PRIOR APPLICATION NUMBER: 60/200,025

; PRIOR FILING DATE: 2000-04-26

; PRIOR APPLICATION NUMBER: 60/224,610

; PRIOR FILING DATE: 2000-08-11

; PRIOR APPLICATION NUMBER: 60/200,024

; PRIOR FILING DATE: 2000-04-26

; PRIOR APPLICATION NUMBER: 60/199,880

; PRIOR FILING DATE: 2000-04-26

; PRIOR APPLICATION NUMBER: 60/218,591

; PRIOR FILING DATE: 2000-07-17

; PRIOR APPLICATION NUMBER: 60/271,814

; PRIOR FILING DATE: 2001-02-27

; NUMBER OF SEQ ID NOS: 49

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 32

; LENGTH: 294

; TYPE: PRT

; ORGANISM: Unknown Organism

; FEATURE:

; OTHER INFORMATION: Description of Unknown Organism: POLYX

; OTHER INFORMATION: CGS5655\_02

US-09-839-446-32

Query Match 9.0%; Score 96; DB 10; Length 294;

Best Local Similarity 23.8%; Pred. No. 0.23;

Matches 44; Conservative 31; Mismatches 58; Indels 52; Gaps 10;

QY 27 EEINKAIDDAIAAEQSETID-PMKV-----PHADKFERHVGIVDF-----KGE- 70

DB 103 EYINSLNDLVKEVKSEVNGPSSVTRILKSQAAMP-RHFOQIMFYNDTIAAKQEK 161

QY 71 ---LAMRNIEARG-----LKQMKRQGDANVKGE-----GIVKAHL--LIGVHDDIVS 113

DB 162 CXTFILRQLEVAGKEMSEEDVNDMLHQKWEVFNESLLTEINITKAQLSEIEQRHKLNV 221

QY 114 MEYDLAYKLGDLHPHTHVISDIQDFVALSLEISDEG-----NITMTSFEVRQFANVNH 169

DB 222 LE-----NQIKDLRLDFIQISLLVEEQGESINNIENTVNSTKEYVYVNTK 267

QY 170 GGLSI 174

DB 268 FGLAV 272

RESULT 12

US-10-012-697-1496

; Sequence 1496, Application US/10012697

; Publication No. US20030215803A1

; GENERAL INFORMATION:

; APPLICANT: Escobedo, Jaime

; APPLICANT: Garcia, Pablo Dominguez

; APPLICANT: Kassam, Altai

; APPLICANT: Lamson, George

; APPLICANT: Scott, Beth

; APPLICANT: Drmanac, Radoje

; APPLICANT: Crkvenjakov, Radomir

; APPLICANT: Dickson, Mark

; APPLICANT: Drmanac, Snezana

; APPLICANT: Labat, Ivan

; APPLICANT: Leshkowitz, Dena



```

; APPLICANT: Kita, David
; APPLICANT: Garcia, Veronica
; APPLICANT: Jones, Lee William
; APPLICANT: Stache-Crain, Birgit
; TITLE OF INVENTION: HUMAN GENES AND GENE EXPRESSION PRODUCTS
; FILE REFERENCE: 2300-16252
; CURRENT APPLICATION NUMBER: US/10/012,697
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: 60/254,648
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: 60/275,668
; PRIOR FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 1568
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1496
; LENGTH: 294
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-012-697-1496

Query Match          9.0%; Score 96; DB 15; Length 294;
Best Local Similarity 23.8%; Pred. No. 0.23; 58; Indels 52; Gaps 10;
Matches 44; Conservative 31; Mismatches 58; Indels 52; Gaps 10;

QY 27 EEINKAIDDAIAAEQSETID-PMKV-----PDHAKKFERHVGIVDF-----KGE- 70
DB 103 EYINRSLNDLVKVEKSEVNGSPSVVTRILKSHAAMP-RHFQIMFIYNDTIAAKQEK 161
QY 71 ---LAMRNIARG-----LKMQRQGDANVKGE-----GIVKAHL--LIGVHDDIVS 113
DB 162 CKTFILRQLEVAGKEMSEEDVNDMLHQKWEVFNESLLTEINITKAQLSEIQRHKELVN 221
QY 114 MEYDLAYKLGDLHPTTHVISDIDQFVVVALSLEISDEG-----NITMTSFVROFANVNVHI 169
DB 222 LE-----NQIKDLRDLFIQISLLVEEQGESINNIEMTVNSTKEYVYNTKEK 267
QY 170 GGLSI 174
DB 268 FGLAV 272

RESULT 13
US-10-220-120-411
; Sequence 411, Application US/10220120
; Publication No. US20040048253A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.
; APPLICANT: PANZER, Scott R.
; APPLICANT: SPIRO, Peter A.
; APPLICANT: BANVILLE, Steven C.
; APPLICANT: SHAH, Furvi
; APPLICANT: CHALUP, Michael S.
; APPLICANT: CHEN, Simon C.
; APPLICANT: CHEN, Alice
; APPLICANT: D'SA, Steven A.
; APPLICANT: AMSHEY, Stefan
; APPLICANT: DAHL, Christopher R.
; APPLICANT: DAM, Tam C.
; APPLICANT: DANIELS, Susan E.
; APPLICANT: DUFOUR, Gerard E.
; APPLICANT: FLORES, Vincent
; APPLICANT: FONG, Willy T.
; APPLICANT: GREENAWALT, Lila B.
; APPLICANT: HILLMAN, Jennifer L.
; APPLICANT: JONES, Anissa L.
; APPLICANT: LIU, Tommy F.
; APPLICANT: ROSEBERRY, Ann M.
; APPLICANT: ROSEN, Bruce H.
; APPLICANT: RUSSO, Frank D.
; APPLICANT: STOCKDREHER, Theresa K.
; APPLICANT: DAFFO, Abel
; APPLICANT: WRIGHT, Rachel J.

; APPLICANT: Kita, David
; APPLICANT: Garcia, Veronica
; APPLICANT: Jones, Lee William
; APPLICANT: Stache-Crain, Birgit
; TITLE OF INVENTION: HUMAN GENES AND GENE EXPRESSION PRODUCTS
; FILE REFERENCE: 2300-16252
; CURRENT APPLICATION NUMBER: US/10/012,697
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: 60/254,648
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: 60/275,668
; PRIOR FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 1568
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1496
; LENGTH: 294
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-012-697-1496

Query Match          9.0%; Score 96; DB 15; Length 294;
Best Local Similarity 23.8%; Pred. No. 0.23; 58; Indels 52; Gaps 10;
Matches 44; Conservative 31; Mismatches 58; Indels 52; Gaps 10;

QY 27 EEINKAIDDAIAAEQSETID-PMKV-----PDHAKKFERHVGIVDF-----KGE- 70
DB 103 EYINRSLNDLVKVEKSEVNGSPSVVTRILKSHAAMP-RHFQIMFIYNDTIAAKQEK 161
QY 71 ---LAMRNIARG-----LKMQRQGDANVKGE-----GIVKAHL--LIGVHDDIVS 113
DB 162 CKTFILRQLEVAGKEMSEEDVNDMLHQKWEVFNESLLTEINITKAQLSEIQRHKELVN 221
QY 114 MEYDLAYKLGDLHPTTHVISDIDQFVVVALSLEISDEG-----NITMTSFVROFANVNVHI 169
DB 222 LE-----NQIKDLRDLFIQISLLVEEQGESINNIEMTVNSTKEYVYNTKEK 267
QY 170 GGLSI 174
DB 268 FGLAV 272

RESULT 14
US-10-363-829-449
; Sequence 449, Application US/10363829
; Publication No. US2004014233A1
; GENERAL INFORMATION:
; APPLICANT: Jackson, Stuart E.; Lincoln, Stephen E.;
; APPLICANT: Altus, Christina M.; Dufour, Gerard E.;
; APPLICANT: Chalup, Michael S.; Jackson, Jennifer L.;
; APPLICANT: Jones, Anissa L.; Yu, Jimmy Y.;
; APPLICANT: Wright, Rachel J.; Gietzen, Darryl;
; APPLICANT: Liu, Tommy F.; Yap, Pierre E.;
; APPLICANT: Dahl, Christopher R.; Momiyama, Monika G.;
; APPLICANT: Bradley, Diana L.; Rohatgi, Sameer D.;
; APPLICANT: Harris, Bernard; Roseberry Lincoln, Ann M.;
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; APPLICANT: YAP, Pierre E.
; APPLICANT: YU, Jimmy Y.
; APPLICANT: BRADLEY, Diana L.
; APPLICANT: BRATCHER, Shawn R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: COHEN, Howard J.
; APPLICANT: HODGSON, David M.
; APPLICANT: LINCOLN, Stephen E.
; APPLICANT: JACKSON, Stuart
; TITLE OF INVENTION: MOLECULES FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PT-1113 PCT
; CURRENT APPLICATION NUMBER: US/10/220,120
; CURRENT FILING DATE: 2002-08-26
; PRIOR APPLICATION NUMBER: 60/184,777; 60/184,797; 60/184,698; 60/184,773; 60/184,776;
; 60/184,769; 60/184,768; 60/184,837; 60/184,697; 60/184,841;
; 60/184,772; 60/185,213; 60/185,216; 60/204,863; 60/205,221;
; 60/204,815; 60/203,785; 60/204,821; 60/204,908; 60/204,226;
; 60/204,525; 60/205,285; 60/205,232; 60/205,323; 60/205,387;
; 60/205,324; 60/205,286
; PRIOR FILING DATE: 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
; 2000-05-17; 2000-05-12; 2000-05-16; 2000-05-16; 2000-05-15;
; 2000-05-16; 2000-05-17; 2000-05-16; 2000-05-17; 2000-05-17;
; 2000-05-17; 2000-05-17
; NUMBER OF SEQ ID NOS: 422
; SOFTWARE: PERL Program
; SEQ ID NO 411
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040048253A1 LG:204626.1.orfi:2000MAY:19
; US-10-220-120-411

Query Match          9.0%; Score 96; DB 12; Length 314;
Best Local Similarity 23.8%; Pred. No. 0.25;
Matches 44; Conservative 31; Mismatches 58; Indels 52; Gaps 10;

QY 27 EEINKAIDDAIAAEQSETID-PMKV-----PDHAKKFERHVGIVDF-----KGE- 70
DB 123 EYINRSLNDLVKVEKSEVNGSPSVVTRILKSHAAMP-RHFQIMFIYNDTIAAKQEK 181
QY 71 ---LAMRNIARG-----LKMQRQGDANVKGE-----GIVKAHL--LIGVHDDIVS 113
DB 182 CKTFILRQLEVAGKEMSEEDVNDMLHQKWEVFNESLLTEINITKAQLSEIQRHKELVN 241
QY 114 MEYDLAYKLGDLHPTTHVISDIDQFVVVALSLEISDEG-----NITMTSFVROFANVNVHI 169
DB 242 LE-----NQIKDLRDLFIQISLLVEEQGESINNIEMTVNSTKEYVYNTKEK 287
QY 170 GGLSI 174
DB 288 FGLAV 292

RESULT 14
US-10-363-829-449
; Sequence 449, Application US/10363829
; Publication No. US2004014233A1
; GENERAL INFORMATION:
; APPLICANT: Jackson, Stuart E.; Lincoln, Stephen E.;
; APPLICANT: Altus, Christina M.; Dufour, Gerard E.;
; APPLICANT: Chalup, Michael S.; Jackson, Jennifer L.;
; APPLICANT: Jones, Anissa L.; Yu, Jimmy Y.;
; APPLICANT: Wright, Rachel J.; Gietzen, Darryl;
; APPLICANT: Liu, Tommy F.; Yap, Pierre E.;
; APPLICANT: Dahl, Christopher R.; Momiyama, Monika G.;
; APPLICANT: Bradley, Diana L.; Rohatgi, Sameer D.;
; APPLICANT: Harris, Bernard; Roseberry Lincoln, Ann M.;
```

APPLICANT: Gerstin, Jr., Edward H.; Peralta, Careyna H.;  
APPLICANT: David, Marie H.; Panzer, Scott R.;  
APPLICANT: Flores, Vincent Z.; Daffo, Abel;  
APPLICANT: Marwaha, Rakesh; Chen, Alice J.;  
APPLICANT: Chang, Simon C.; Au, Alan P.;  
APPLICANT: Iman, Rebekah R.  
TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT  
FILE REFERENCE: PT-1183 USN  
CURRENT APPLICATION NUMBER: US/10/363,829  
CURRENT FILING DATE: 2003-03-05  
PRIOR APPLICATION NUMBER: PCT/US01/27628  
PRIOR FILING DATE: 2001-09-05  
PRIOR APPLICATION NUMBER: US 60/229,751  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: US 60/229,749  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: US 60/229,750  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: US 60/229,747  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: US 60/229,748  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: US 60/230,583  
PRIOR FILING DATE: 2000-09-05  
PRIOR APPLICATION NUMBER: US 60/230,517  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: US 60/230,610  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: US 60/230,597  
PRIOR FILING DATE: 2000-09-06  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 506  
SOFTWARE: PERL Program  
SEQ ID NO 449  
LENGTH: 314  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
OTHER INFORMATION: Incyte ID No: LI:204626.1.orf1.2000SEP08  
US-10-363-829-449

Query Match 9.0%; Score 96; DB 16; Length 314;  
Best Local Similarity 23.8%; Pred. No. 0.25;  
Matches 44; Conservative 31; Mismatches 58; Indels 52; Gaps 10;  
QY 27 BEINKAIDATAAEQSTID-PMKV-----PDHAKFERHVGIVDP-----KGE-70  
DB 123 EYINSLDLVKEVKSEVNGSPSVTRILKSOAAWF-RHQOIMFIYNDITAAKQEK 181  
QY 71 ---LAMRNIEARG-----LKQMKROGDANVKGE-----GIVKAHL--LIGVHDDIVS 113  
DB 182 KCTFILRLQLEVANGEMSESDVNDMLHQKWEVFNESLLTEINITKAQLSEIQPHKELVN 241  
QY 114 MEYDLAYKGLDHPHTHVISIQDFVVALSEISDEG-----NIMTSEFVRQFANVNNHI 169  
DB 242 LE-----NQIKDLRFIQISLLVEQGESINNIENTVNTSTKEYNNYNTKEX 287  
QY 170 GGLSI 174  
DB 288 FGLAV 292

RESULT 15  
US-10-424-599-241872  
Sequence 241872, Application US/10424599  
Publication No. US20040031072A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa Thomas J  
APPLICANT: Kovalic David K  
APPLICANT: Zhou Yihua  
APPLICANT: Cao Yongwei  
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53223)B  
CURRENT APPLICATION NUMBER: US/10/424,599  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 285684  
SEQ ID NO 241872  
LENGTH: 293  
TYPE: PRT  
ORGANISM: Glycine max  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT3847\_60438C.1.pep  
US-10-424-599-241872  
Query Match 8.9%; Score 95; DB 12; Length 293;  
Best Local Similarity 20.7%; Pred. No. 0.29;  
Matches 47; Conservative 41; Mismatches 89; Indels 50; Gaps 6;  
QY 2 MKFLIIAAVAFVAVSADPIHYDKITEINKAIDDAIAAEQSETIDPMKVPDHPADKFERH 61  
DB 63 LRFLRLSEVA-----EKLOKQAAISIKQGENYAREMLFORKKVLQALDKSKRR 111  
QY 62 VGIVDFKGLAWRNTEARGLKQMKQGDANVKKEGIVKAHLI-----GVHDDIVSM 114  
DB 112 IEVLD---ELSKLSEALSLSKESQLIGNVTVKIEDSTEDASSPVRIIAKPEEVQNDVTKD 168  
QY 115 EYDLAYKGLDHPHTHVISIDQD-----FVVALSEISDEGNITMT 155  
DB 169 ESD-----PDMEFSDIQDVOLSTESBGSPLDDKETOHLLESLSISNNEEYIARN 219  
QY 156 SFEVRQFANVNHIG-GLSILDPIFGVLSQDVLTAIFQDVTVRKEMTKV 201  
DB 220 LSEISSYEDFMEHIDKILSEIAELVTVLNVSTLVLVDNEERPQNSRL 266  
RESULT 16  
US-10-282-122A-54874  
Sequence 54874, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Cart, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09

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; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 54874
; LENGTH: 1397
; TYPE: PRF
; ORGANISM: Chlamydia pneumoniae
US-10-282-122A-54874

Query Match      8.6%; Score 91.5; DB 12; Length 1397;
Best Local Similarity 21.2%; Pred. No. 6.2;
Matches 53; Conservative 35; Mismatches 63; Indels 99; Gaps 12;

QY 36 AIAAIEOSEYIDP-----EARGLKQ-----MKRQDANVKE---EGIVKAHLI--- 105
Db 1110 AIIISVEGQVDPGMLLARLPRAIKTKDITGGLPRVAELVEARKPEDAADIADIGWD 1169
QY 67 FKGLAMRNI-----EARGLKQ-----MKRQDANVKE---EGIVKAHLI--- 105
Db 1170 FKGIQKRLVIVCDENWEEHILPTLKHILVQKQSVIRKQQLTDGLVWPHEILEIC 1229
QY 106 GVND--DIVSMEYDLAYKGLDHPHTTHVISDIQDFVVAL-----SLEISDEGNITMTS 156
Db 1230 GVRELQKYLNEQVYRLQGV-----DINDKHEIIVQMLQKVRITDPDITLL- 1280
QY 157 FEVRQFANVN-----HIGQ-----LSILDPIFGVLSVLTAFQDVTVR 195
Db 1281 -----FGEDVKNKEFVEENRTEDGKPAQAVPLGTTKASLGTFISAAFSQDT-- 1333
QY 196 KEMTKVLAPA 205
Db 1334 ---TRVLTD 1340

RESULT 17
US-10-369-493-9287
; Sequence 9287, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 9287
; LENGTH: 541
; TYPE: PRF
; ORGANISM: Xylella fastidiosa
US-10-369-493-9287

Query Match      8.5%; Score 90.5; DB 15; Length 541;
Best Local Similarity 22.8%; Pred. No. 2;
Matches 54; Conservative 43; Mismatches 87; Indels 53; Gaps 12;

QY 13 VAVSADPIHYDKITEINKAIDDA-IAAIEQSETIDPMKVPDADKPERHVGIVDFKGL 71
Db 107 VAAGNPM-----DLKRGIDKAVIAAVTELKISK---PTSDDKAIAQVATISANSD 156
QY 72 AMNIEARGLKQMKRGDANVKEGIVKAHLIIGVHDDIVSMEYDLAY----- 120
Db 157 SIGNIIAEAMKVKGEVITI--EETTLENEL-----DVVEGMQDFRGYSYPFINNQ 210
QY 121 ---KLGLDHPHTH--VISDIQDFVVALSLEISDEGNITMTSFEVRQFA---NVNHI 172
Db 211 QIVELDNPIYLLHDKKISSVRDLTVLDVAVAKESKPLLIVAEEVEGEALATLVVNI 270
QY 173 ----SILDPIFG-----VLSVDL-----TAIFQD---TVRKEMTKVLAPAFKRELE 212
Db 271 IKVCAVKAPGFGDRRKAMLEDMVLTGTVISEEVGLSLEKATTSHLGKAKKVRVSK 327

RESULT 18
US-10-369-493-17524
; Sequence 17524, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 17524
; LENGTH: 547
; TYPE: PRF
; ORGANISM: Xylella fastidiosa
US-10-369-493-17524

Query Match      8.5%; Score 90.5; DB 15; Length 547;
Best Local Similarity 22.8%; Pred. No. 2.1;
Matches 54; Conservative 43; Mismatches 87; Indels 53; Gaps 12;

QY 13 VAVSADPIHYDKITEINKAIDDA-IAAIEQSETIDPMKVPDADKPERHVGIVDFKGL 71
Db 107 VAAGNPM-----DLKRGIDKAVIAAVTELKISK---PTSDDKAIAQVATISANSD 156
QY 72 AMNIEARGLKQMKRGDANVKEGIVKAHLIIGVHDDIVSMEYDLAY----- 120
Db 157 SIGNIIAEAMKVKGEVITI--EETTLENEL-----DVVEGMQDFRGYSYPFINNQ 210
QY 121 ---KLGLDHPHTH--VISDIQDFVVALSLEISDEGNITMTSFEVRQFA---NVNHI 172
Db 211 QIVELDNPIYLLHDKKISSVRDLTVLDVAVAKESKPLLIVAEEVEGEALATLVVNI 270
QY 173 ----SILDPIFG-----VLSVDL-----TAIFQD---TVRKEMTKVLAPAFKRELE 212
Db 271 IKVCAVKAPGFGDRRKAMLEDMVLTGTVISEEVGLSLEKATTSHLGKAKKVRVSK 327

RESULT 19
US-10-282-122A-47806
; Sequence 47806, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
```

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; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47806
; LENGTH: 944
; TYPE: PRT
; ORGANISM: Burkholderia cepacia
US-10-282-122A-47806

Query Match      8.5%; Score 90.5; DB 12; Length 944;
Best Local Similarity 27.1%; Pred. No. 4.5;
Matches 29; Conservative 19; Mismatches 52; Indels 7; Gaps 2;

QY 45 TIDPMKVPDHPADKFERHVGIVDFK----GELAMNRIEARGLKQMKROGDANVKGEIGIVK 100
DB 357 TLDIVGAPVNGANANRPIRTIFRDRMGNLKVQHTPTVTRFRDRKGRDRTVKYRTPPT 416

QY 101 ARLHLLGVHDDIVSMYDLYAYKLGDLH---PPTHVISDIQDFWALS 144
DB 417 AGIALGUTPDVVVSFFDYKAGRLMAEHGVNGIVEYLDALDNTTIAL 463

RESULT 20
US-09-742-096-3
; Sequence 3, Application US/09742096
; Patent No. US2002015541A1
; GENERAL INFORMATION:
; APPLICANT: DRUIIHE, PIERRE
; TITLE OF INVENTION: MALARIAL PRE-ERYTHROCYTIC STAGE POLYPEPTIDE MOLECULES
; FILE REFERENCE: 200773US01V
; CURRENT APPLICATION NUMBER: US/09/742,096
; CURRENT FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 08/973,642
; PRIOR FILING DATE: 1998-02-06
; PRIOR APPLICATION NUMBER: PCT/FR96/00894
; PRIOR FILING DATE: 1996-06-12
; PRIOR APPLICATION NUMBER: FR 95/07007
; PRIOR FILING DATE: 1995-06-13
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 1786
; TYPE: PRT
; ORGANISM: P. falciparum
US-09-742-096-3

Query Match      8.4%; Score 90; DB 9; Length 1786;
Best Local Similarity 23.3%; Pred. No. 13;
Matches 47; Conservative 43; Mismatches 78; Indels 34; Gaps 9;

QY 22 YDKITEINKAIDDAIAEQSETIDPMKVPDHPADKFERHVGIVDFKGEIAMRNIEARGL 81
DB 979 FNTVLDKVEETVEISGESLENNE---MDKAPFSEIFDNVKGQENLLTGMFRSISIV 1034

QY 82 KQMKROGDANVKGEIGIVKHAHLIGVHDDIVSMYDLYAYKLGDLHPTTHVISDIQDFVVA 141
DB 1035 IQSEKQVDLN---ENVVSSIL-----DNIENKKGLLNKLKLENISSTEGVQETVTEHV-- 1083

QY 142 LSLEISDEGNITMTSFEV-----ROPANVNVHIGGLS-----ILDPIFGVLSVLTAA--IFQ 191
DB 1084 -----EQNV-YVDVDPAMKQDFLGLINEAGLKEMFNFLEDFVKSESVDITVEIKD 1135

QY 192 DTVRKEMTKVLAPAPKRELEKN 213
DB 1136 EPVQKEVEKETVSIIE-EMEEN 1156

RESULT 22
US-09-925-298-445
; Sequence 445, Application US/09925298
; Publication No. US20020039764A1
; GENERAL INFORMATION:
; APPLICANT: ROSEN et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA103
; CURRENT APPLICATION NUMBER: US/09/925,298
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05881
; PRIOR FILING DATE: 2000-03-08

```

; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 846  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 445  
; LENGTH: 405  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-925-298-445

Query Match 8.3%; Score 88.5; DB 12; Length 405;  
Best Local Similarity 24.6%; Pred. No. 2.2;  
Matches 30; Conservative 25; Mismatches 50; Indels 17; Gaps 3;  
  
Qy 18 DPHYDKITEINKAIDDAIAAEQSETI-----DPMKVPDHD-KPERHV 62  
Db 21 DKFSFDLKGGEVIRKAWDIAIATMKVGEVCHITCKPEYAGSAGSPKIPPNATLVFE--V 78  
Qy 63 GIVDFKGLAMRNIEARGLKQKMGDANVKGEIVKAHLIGVHDDIVSMYDLYAKL 122  
Db 79 ELFEFKGEDLTEDDGGIIRIQTREGYAKPNEGAIVEVALEGGYKDKLFDQRELRFEI 138  
  
Qy 123 GD 124  
Db 139 GE 140

## RESULT 23

; Sequence 445, Application US/10102806  
; Publication No. US20030054421A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: P103P1C1  
; CURRENT APPLICATION NUMBER: US/10/102,806  
; PRIOR FILING DATE: 2002-03-22  
; PRIOR APPLICATION NUMBER: 09/925,298  
; PRIOR FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05881  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 846  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 445  
; LENGTH: 405  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-102-806-445

Query Match 8.3%; Score 88.5; DB 14; Length 405;  
Best Local Similarity 24.6%; Pred. No. 2.2;  
Matches 30; Conservative 25; Mismatches 50; Indels 17; Gaps 3;  
  
Qy 18 DPHYDKITEINKAIDDAIAAEQSETI-----DPMKVPDHD-KPERHV 62  
Db 21 DKFSFDLKGGEVIRKAWDIAIATMKVGEVCHITCKPEYAGSAGSPKIPPNATLVFE--V 78  
Qy 63 GIVDFKGLAMRNIEARGLKQKMGDANVKGEIVKAHLIGVHDDIVSMYDLYAKL 122  
Db 79 ELFEFKGEDLTEDDGGIIRIQTREGYAKPNEGAIVEVALEGGYKDKLFDQRELRFEI 138  
  
Qy 123 GD 124  
Db 139 GE 140

## RESULT 24

; Sequence 140, Application US/10177293  
; Publication No. US20030124128A1  
; GENERAL INFORMATION:

; APPLICANT: Lillie, James  
; APPLICANT: Glatt, Karen  
; APPLICANT: Zhao, Xumei  
; APPLICANT: Gannavarpu, Manjula  
; APPLICANT: Kamackar, Shubhangi  
; APPLICANT: Mertens, Maureen  
; APPLICANT: Myer, Vic  
; APPLICANT: Wang, Youzhen  
; APPLICANT: Xu, Yongyao  
; APPLICANT: Hoersch, Sebastian  
; APPLICANT: Monahan, John  
; APPLICANT: Meyers, Rachel E.  
; APPLICANT: East Jr., Robert C.  
; APPLICANT: Hortobagyi, Gabriel N.  
; APPLICANT: Pusztai, Lajos  
; APPLICANT: Meric, Funda  
; APPLICANT: Sahin, Aysegul  
; APPLICANT: Mills, Gordon B.  
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,  
; FILE REFERENCE: PREVENTION, AND THERAPY OF BREAST CANCER  
; FILE REFERENCE: MRI-038  
; CURRENT APPLICATION NUMBER: US/10/177,293  
; PRIOR FILING DATE: 2002-06-21  
; PRIOR APPLICATION NUMBER: US 60/299,887  
; PRIOR FILING DATE: 2001-06-21  
; PRIOR APPLICATION NUMBER: US 60/301,572  
; PRIOR FILING DATE: 2001-06-27  
; PRIOR APPLICATION NUMBER: US 60/306,501  
; PRIOR FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: US 60/325,002  
; PRIOR FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: US 60/362,585  
; PRIOR FILING DATE: 2002-03-05  
; PRIOR APPLICATION NUMBER: US 60/xxx,xxx  
; PRIOR FILING DATE: 2002-05-14  
; NUMBER OF SEQ ID NOS: 506  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 140  
; LENGTH: 459  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-177-293-140

Query Match 8.3%; Score 88.5; DB 14; Length 459;  
Best Local Similarity 24.6%; Pred. No. 2.6;  
Matches 30; Conservative 25; Mismatches 50; Indels 17; Gaps 3;  
  
Qy 18 DPHYDKITEINKAIDDAIAAEQSETI-----DPMKVPDHD-KPERHV 62  
Db 75 DKFSFDLKGGEVIRKAWDIAIATMKVGEVCHITCKPEYAGSAGSPKIPPNATLVFE--V 132  
Qy 63 GIVDFKGLAMRNIEARGLKQKMGDANVKGEIVKAHLIGVHDDIVSMYDLYAKL 122  
Db 133 ELFEFKGEDLTEDDGGIIRIQTREGYAKPNEGAIVEVALEGGYKDKLFDQRELRFEI 192  
  
Qy 123 GD 124  
Db 193 GE 194

## RESULT 25

US-10-190-279-2  
; Sequence 2, Application US/10190279  
; Publication No. US20030096267A1  
; GENERAL INFORMATION:  
; APPLICANT: Fritz, Christian  
; APPLICANT: Youngman, Philip  
; APPLICANT: Guzman, Luz-Maria  
; TITLE OF INVENTION: ESSENTIAL BACTERIAL GENES AND THEIR USE  
; FILE REFERENCE: 06286-088001  
; CURRENT APPLICATION NUMBER: US/10/190,279  
; CURRENT FILING DATE: 2002-07-05  
; PRIOR APPLICATION NUMBER: US/09/393,858

[illegible]

QY 173 S--ILDPIFGVLSVLTALFQDTRKEMTKV 201  
Db 198 DRVIASPVAGTTRDAIDTHFTDGDQFTMI 228

RESULT 28

US-10-190-279-5  
; Sequence 5, Application US/10190279  
; Publication No. US20030096267A1  
; GENERAL INFORMATION:  
; APPLICANT: Fritze, Christian  
; APPLICANT: Youngman, Philip  
; APPLICANT: Guzman, Luz-Maria  
; TITLE OF INVENTION: ESSENTIAL BACTERIAL GENES AND THEIR USE  
; FILE REFERENCE: 06286-088001  
; CURRENT APPLICATION NUMBER: US/10/190,279  
; CURRENT FILING DATE: 2002-07-05  
; PRIOR APPLICATION NUMBER: US/09/393,858  
; PRIOR FILING DATE: 1999-09-09  
; PRIOR APPLICATION NUMBER: 60/099,578  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 43  
; SOFTWARE: Fast-Seq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 436  
; TYPE: PRT  
; ORGANISM: Streptococcus pneumoniae  
US-10-190-279-5

Query Match 8.2%; Score 88; DB 14; Length 436;  
Best Local Similarity 21.8%; Pred. No. 2.7; Mismatches 89; Indels 42; Gaps 8;  
Matches 46; Conservative 34;  
QY 30 NKAIDDAIAIEQSETIDPKVPHADKPERHVGIVDFKGLAMRNIEARGLKQMRQGD 89  
Db 21 NRIAGERISIVDEGVTRDRIYATGEWLNRSFSDITGG---IDDVDAPFMEQIKHQA 77  
QY 90 AN-----VKREGIVK-----AHLLIGVHDDIV-----SMEYDL-----AYK 121  
Db 78 IAMEEADVIVFVSGKGGTDADEYVARKLYTKHKPVILAVNKVDNPMRNDIYDYALG 137  
QY 122 LGDLPHPTTHV-----ISDIOQFVVALSLEISDEGNITMTSPFVRQFANV-----VNHIGGL 172  
Db 138 LGPELPFSSVHGIGTGVDLDAIVENLPNEYEEENPDVIFSLIGRNVGKSSLIINAILGE 197  
QY 173 S--ILDPIFGVLSVLTALFQDTRKEMTKV 201  
Db 198 DRVIASPVAGTTRDAIDTHFTDGDQFTMI 228

RESULT 29

US-10-282-122A-71455  
; Sequence 71455, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Onsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 71455  
; LENGTH: 713  
; TYPE: PRT  
; ORGANISM: Staphylococcus haemolyticus  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (711)..(711)  
; OTHER INFORMATION: X=any amino acid  
US-10-282-122A-71455

Query Match 8.2%; Score 88; DB 12; Length 713;  
Best Local Similarity 19.4%; Pred. No. 5.5;  
Matches 60; Conservative 51; Mismatches 94; Indels 104; Gaps 14;  
QY 3 KFLIIAAVAVAGADPIHYDKITEE-----INKAIDDAI--AAEQSETIDPKVP 52  
Db 33 KYVTWALGHVTRAQPEHYDKAYKEWKLEDLPILPKRMQTVVIGTKSKQFKTKVSLIL- 91  
QY 53 DHADKFERHVGI---VDFKGLAMRNI--EARGLKQMRQGDANVKG---EEGIVK---- 100  
Db 92 ---DKKVKSEVIATDAGREGELVARLILDKVHNKKPKIKLWISSVTKKAIQEGFKLKG 148  
QY 101 -----AHLLIGVH--DDIVSMEYDLAYKLGDLH-PTHVIS-----DIQDFV 139  
Db 149 REFQHLYEALARSEADWIVGINATRALTTKYDQSLGRVQVPTIQLVNRARQOEINHF 208  
QY 140 VALSLEISDE--GNIT-----MTSFEVRQFANVYVNHIGG-----LSILDPIF 179  
Db 209 AKKYTLSTLSTGGLTFQLSTNKHQMTKEDATQIANEIKHVEGNVDSEKVKYKSHKPKLY 268  
QY 180 GVL-----SDVLTALFQDTRKEMTKV 202  
Db 269 NLTDLQEQAYQRYKMGPKETLNTIONLYERHKVLTYPRTDSNYLTDDMDVTIKERLYALL 328  
QY 203 APAFKRELE 211  
Db 329 ATDYKSQVK 337

RESULT 30

US-10-369-493-3209  
; Sequence 3209, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xiaofeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES  
; FILE REFERENCE: 38-10(52052)B

; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 3209  
; LENGTH: 1361  
; TYPE: PRT  
; ORGANISM: Neurospora crassa  
US-10-369-493-3209

Query Match 8.2%; Score 87.5; DB 15; Length 1361;  
Best Local Similarity 27.8%; Pred. No. 16;  
Matches 40; Conservative 19; Mismatches 62; Indels 23; Gaps 6;  
QY 26 TEEINKAIDDAIAESET--ID-PMKVPDHAKFERHVGIVDFKGLAMRIEARGLK 82  
DB 213 TTDLNOTIKDTKAKLKOKETELIDKKKKDRDLTEK--TIAEKOTTLACKTELENLK 270  
QY 83 QMKQGDANVKGEGIVKAHLL--IGVHDDIVSMEYDLAYKLGD-----L 125  
DB 271 AQNTNMMNTNREIGDKTAELLKKEGELRDL-RQKYDDACKLADGSKKELAIATQYKQII 329  
QY 126 HPTTHVISDIQDFVVALSLEISDE 149  
DB 330 ATKTSLEKAKKDVAAATKDVNDQ 353

RESULT 31  
US-10-282-122A-74394  
; Sequence 74394, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 74394

; LENGTH: 436  
; TYPE: PRT  
; ORGANISM: Streptococcus pyogenes  
US-10-282-122A-74394  
Query Match 8.1%; Score 87; DB 12; Length 436;  
Best Local Similarity 22.2%; Pred. No. 3.4;  
Matches 47; Conservative 41; Mismatches 80; Indels 44; Gaps 11;  
QY 30 NKAIDDAIAAEQSETIDPMKVPDHAKFERHVGIVDFKGLAMRIEARGLKQKRG- 88  
DB 21 NFIAGERSIVEDVEGTRDRIYATGEWLNQFSLDTGG---IDVDAPFMEQKKHQAQ 77  
QY 89 ----DAN-----VKEGEGIVKAH-----LLIGVHD-DIVSMEYDL-----AYK 121  
DB 78 IAMEADIVFVVSCKEGVTDADDEVSKILYRTNTPFVILAVNKVDNPEMRNDIVDFYSLG 137  
QY 122 LGDLHPTTHV-----ISDIQDFVVA-LSLEISDEGNITMTSFEVROFANY-----VNHGG 171  
DB 138 LGDPYFVSSVHGIGTGDVLDALVENLPVEBAEE-NDDIIRFSLIGRPNVKGKSLINAILG 196  
QY 172 LS--ILDPIFGVLSDLVLTALTAIFODTVRKEMTKV 201  
DB 197 EDRVIASPVAGTTRDAIDTHFTDADGQBFMTI 228

RESULT 32  
US-10-282-122A-77547  
; Sequence 77547, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 77547  
; LENGTH: 544  
; TYPE: PRT



; ORGANISM: Vibrio cholerae  
US-10-282-122A-77547

Query Match 8.1%; Score 86.5; DB 12; Length 544;  
Best Local Similarity 24.4%; Pred. No. 5.3;  
Matches 41; Conservative 21; Mismatches 37; Gaps 5;  
QY 6 LIAAVAFVAVSA-----DPIHYKITBEINKAIDDAIAAEQSETIDPMKV 51  
DB 372 LAGGAVIKVGAATEVEMKEKORVEDALHATRAAVEGVAGGVALTRAASKLSLV- 430  
QY 52 PDHADKFERHVGIVDFKGLAMENIEARGLKQMKRQGDA-----NVKGEEGIVKAHLII 105  
DB 431 ---GDNEEQVGI-----RVALLAMEAPLRQIVKNAGDEESVVANNVRAGEGNYNAAT 482  
QY 106 GVHDDIVSMEYDLAYLGLDHPHTTHVISDIQDFWALSLSISDEGNIT 153  
DB 483 GYVGDMIEM-----GILDPTKVTRESALQPAASVAGLMTITMERMIT 522

RESULT 33  
US-09-815-242-5470  
; Sequence 5470, Application US/09815242  
; Patent No. US20020061569A1  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari L.  
; APPLICANT: Zyskind, Judith W.  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant J.  
; APPLICANT: Yamamoto, Robert T.  
; APPLICANT: Xu, H. Howard  
; TITLE OF INVENTION: Identification of Essential Genes in  
; TITLE OF INVENTION: Prokaryotes  
; FILE REFERENCE: ELITRA.011A  
; CURRENT APPLICATION NUMBER: US/09/815,242  
; CURRENT FILING DATE: 2001-03-21  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 14110  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5470  
; LENGTH: 660  
; TYPE: PRT  
; ORGANISM: Staphylococcus aureus  
US-09-815-242-5470

Query Match 8.1%; Score 86.5; DB 9; Length 660;  
Best Local Similarity 22.2%; Pred. No. 7;  
Matches 36; Conservative 31; Mismatches 50; Indels 45; Gaps 5;  
QY 1 MMKFLIIAAVAFVAVSADPIHYKITBEINKAIDDAIAAEQSETIDPMKV-----51  
DB 354 IFSLLMIALVSFVAMAFNGKYBETPDVIGSKVEA-----EQIFKNKNLKLGIKISRSYSD 409  
QY 52 -----PDHADKFER--HVGIVDFKG-----ELAMRNIEARGLKQK 84  
DB 410 KYPENEIIKTPNTGERVERGSDVDVVISKGPVKMPNVIGLPKEQALQKLSGLKDV 469  
QY 85 KRQGDANVKGEGI-----VKAHLLIGVHDDIVSMEYDLAYK 121

DB 470 KIEKYNNQAPGYIANQSVTANTEIAIHDSNIKLYESLGIK 511

RESULT 34  
US-09-815-242-12179  
; Sequence 12179, Application US/09815242  
; Patent No. US20020061569A1  
; GENERAL INFORMATION:  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari L.  
; APPLICANT: Zyskind, Judith W.  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John D.  
; APPLICANT: Carr, Grant J.  
; APPLICANT: Yamamoto, Robert T.  
; APPLICANT: Xu, H. Howard  
; TITLE OF INVENTION: Identification of Essential Genes in  
; TITLE OF INVENTION: Prokaryotes  
; FILE REFERENCE: ELITRA.011A  
; CURRENT APPLICATION NUMBER: US/09/815,242  
; CURRENT FILING DATE: 2001-03-21  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR FILING DATE: 2001-02-16  
; NUMBER OF SEQ ID NOS: 14110  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12179  
; LENGTH: 664  
; TYPE: PRT  
; ORGANISM: Staphylococcus aureus  
US-09-815-242-12179

Query Match 8.1%; Score 86.5; DB 9; Length 664;  
Best Local Similarity 22.2%; Pred. No. 7.1;  
Matches 36; Conservative 31; Mismatches 50; Indels 45; Gaps 5;  
QY 1 MMKFLIIAAVAFVAVSADPIHYKITBEINKAIDDAIAAEQSETIDPMKV-----51  
DB 355 IFSLLMIALVSFVAMAFNGKYBETPDVIGSKVEA-----EQIFKNKNLKLGIKISRSYSD 410  
QY 52 -----PDHADKFER--HVGIVDFKG-----ELAMRNIEARGLKQK 84  
DB 411 KYPENEIIKTPNTGERVERGSDVDVVISKGPVKMPNVIGLPKEQALQKLSGLKDV 470  
QY 85 KRQGDANVKGEGI-----VKAHLLIGVHDDIVSMEYDLAYK 121  
DB 471 KIEKYNNQAPGYIANQSVTANTEIAIHDSNIKLYESLGIK 512

RESULT 35  
US-10-369-493-7810  
; Sequence 7810, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xiaofeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES

```

; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 7810
; LENGTH: 527
; TYPE: PRT
; ORGANISM: Rhodobacter sphaeroides
US-10-369-493-7810

Query Match      8.1%; Score 86; DB 15; Length 527;
Best Local Similarity 23.5%; Pred. No. 5.7;
Matches 40; Conservative 26; Mismatches 66; Indels 38; Gaps 6;

QY 66 DFKGLANRNTIARGLKQKQGDANVKGBEGIVKAHL-----LIGVHDDIVSMEYD 117
DB 274 DAAGERATRDVVSRIYAEVAKSNSTSENGGVYISMAHLGPDVRRRFGKMGVKKACDCGFD 333
QY 118 LAYKGLDLHPHTH-----VISDIQDFVVALSLEISDEGNITMTSFEVRQFANVNVHIG 170
DB 334 LAGGLVEVPYAHYFMGGVDPDTRTEIDGLHVAGEDAGG-----AHGANRLG 382
QY 171 GLSILD-PIF-GVLSDVUTA-----IPQDVTVKEMTKVLAPAKR 208
DB 383 GNGVANSTVFGGIAGDVNGAEVASIRHLRPADEAVLAAEIDRAMAPLSKR 432

RESULT 36
US-10-369-493-1048
; Sequence 1048, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 1048
; LENGTH: 903
; TYPE: PRT
; ORGANISM: Methanococcus jannaschii
US-10-369-493-1048

Query Match      8.0%; Score 85.5; DB 15; Length 903;
Best Local Similarity 25.0%; Pred. No. 14;
Matches 53; Conservative 30; Mismatches 90; Indels 39; Gaps 11;

QY 23 DKITEINKAIDD-----AIAAEQSETIDPMKV-PDHADKFERHVGIVDFPKGLAM 73
DB 571 DKVNVQLITELDGMEEPQDVVVIATNRPDIIDPALLRPGRLRVIL-VPVDFEKLARDI 629
QY 74 RNIEARGLKQKQGDANV-----KGEIGIVKAHL-----LIGVHDDIVSMEYDLAYK 121
DB 630 FKIHTR---SMNLAEVDNLELAKTEGTCGADTEALCREAAMLAVERSI-GKWDIEVK 685
QY 122 LGDLHPHTHVSIDQDFVVALSLEISDEGNIT--MTSFEVRQFANVNVHIGLSILDPF 179
DB 686 LREL---INYLQISGTFRAAAVELNSVVKTKRESAEAGEFSELKNAIG-----KII 736
QY 180 GVLSDVLTAIFQDVTVKEMTKVLAPAKRELE 211
DB 737 SVLSPAKSKI--EAVEKEIDKFLEVINKEELK 766

RESULT 37
US-10-108-260A-2998
; Sequence 2998, Application US/10108260A
; Publication No. US20040005560A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. US20040005560A1el full length cdna
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; CURRENT FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2998
; LENGTH: 1018
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-108-260A-2998

Query Match      8.0%; Score 85.5; DB 15; Length 1018;
Best Local Similarity 22.0%; Pred. No. 17;
Matches 50; Conservative 35; Mismatches 81; Indels 61; Gaps 14;

QY 20 IHVDKI--TEEKINKALDDAIAAEQSETIDPMK-----VPOHADKFERHV-----GIVDF 67
DB 786 LHRDITVQTLTQPSVKDGLIVYEDSPLVKAVKLGHLVVDKAPNTVTCILKTLVE- 844
QY 68 KGELAM---RNTEARGLKQKQGDANVKGBEGIVKAH-----LIGVHDDIVSMEYDLA 119
DB 845 NGEMILLADGRRIVA-----NSANVNGRENVVVHPDFRMIVLANRPGPPFLGNDFF 895
QY 120 YKGLDLHPHTHVISD-----IQDFVVALS--LEISDEGNITMTS 156
DB 896 GTLGDI-F-SCHAVDNPKPHELEMLRQYQGNVPPEILOQLVAAGFELSLADQGIINY-P 953
QY 157 FEVRQFANVNVHIGLSILDPIFGVLSVLTAFQ-DTVRKEMTKVL 202
DB 954 YSTREVVNIVKHLQKF-----PTEG-LSSVVRNVFDFDSYNNDMREIL 995

RESULT 38
US-10-282-122A-55213
; Sequence 55213, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA_034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
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; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 55213  
; LENGTH: 1396  
; TYPE: PRT  
; ORGANISM: Chlamydia trachomatis  
US-10-282-122A-55213

Query Match 8.0%; Score 85.5; DB 12; Length 1396;  
Best Local Similarity 23.8%; Pred. No. 26; Mismatches 66; Indels 59; Gaps 12;  
Matches 49; Conservative 34

QY 43 SETIDPMKVPDHDADKPERHVGIVDFKGLAMRNI-----EARGLKO-----MKRQ 87  
DB 1145 AEIVAEARKEDAAD-TAKIDGVDFKGIQKRIILVVRDEVGTGMBEHLISLTKHLIVQR 1203  
QY 88 GDANVKE---EGIVKAHLI---GVHD---DIVSMEYDLAYKGLDHPHTTHVISDIQDPV 139  
DB 1204 GDSVIRGOQLTDLGVVPEHLEICGVRELQYLVNEVQEVYRLOQV-----DINDKH 1255  
QY 140 VAL-----SLDISDEGNITM---TSPFVROFANV---VNHGG-----LSILDP 177  
DB 1256 IEIIVQMLQKVRITDPTGTTLLFGEDVDKKEFYENRTEEDGGKPAQAVPVLLGITKA 1315  
QY 178 IFGLVSDVLTALPQDTPVRKEMTKVLAPA 205  
DB 1316 SLGTESFISAAGFQDT-----TRVLTDA 1338

RESULT 39  
US-10-346-863-6  
; Sequence 6, Application US/10346863  
; Publication No. US20040038325A1  
; GENERAL INFORMATION:  
; APPLICANT: PHELPS, CHRISTOPHER BENJAMIN  
; APPLICANT: FAGAN, RICHARD JOSEPH  
; APPLICANT: GUTTERIDGE, ALEX  
; TITLE OF INVENTION: ADHESION MOLECULES  
; FILE REFERENCE: 674575-2001  
; CURRENT APPLICATION NUMBER: US/10/346,863  
; PRIOR FILING DATE: 2003-01-17  
; PRIOR APPLICATION NUMBER: PCT/GB01/03318  
; PRIOR FILING DATE: 2001-07-24  
; PRIOR APPLICATION NUMBER: GB 0018126.3  
; PRIOR FILING DATE: 2000-07-24  
; PRIOR APPLICATION NUMBER: GB 0025447.4  
; PRIOR FILING DATE: 2000-10-17  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 1441  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-346-863-6

Query Match 8.0%; Score 85.5; DB 12; Length 1441;  
Best Local Similarity 22.0%; Pred. No. 27; Mismatches 81; Indels 61; Gaps 14;  
Matches 50; Conservative 35

QY 20 IHYDKI--TEINKAIDDAIAAEQSETIDPMK-----VPDHADKFERHV-----GIVDF 67  
DB 343 LHRDTTQTTLQPSVKDGLIVYEDSPLVKAVKLGHLVVDKADKAPTNTVCTILKTLVE- 401  
QY 68 KGLAM---RNIEARGLKQMKRGDANVKEEGIVKHAH-----LLIGVHDDIVSMEYDLA 119  
DB 402 NGEMILADGRRIVA-----NSANVNGRENVVVTHPDRFMIVLANRPGFPFLGNDFF 452  
QY 120 YKLGDLHPTTHVISD-----IQDFVVALS--LEISDEGNITM 156  
DB 453 GTLGDIF-SCHAVDNPKEHSEMLRQYGNVPEPIQLKLVAAFGELRSLADQGIINY-P 510  
QY 157 FEVRQFANVNHIGLSILDPIFGVLSDLVLTAFQ-DTVRKEMTKVL 202  
DB 511 YSTREVNIVKHLQKF-----PTEG-LSSVVRNVDFDSYNNDMREIL 552

RESULT 40  
US-10-408-765A-824  
; Sequence 824, Application US/10408765A  
; Publication No. US20040101874A1  
; GENERAL INFORMATION:  
; APPLICANT: Ghosh, Soumitra S.  
; APPLICANT: Fahy, Eoin D.  
; APPLICANT: Zhang, Bing  
; APPLICANT: Gibson, Bradford W.  
; APPLICANT: Taylor, Steven W.  
; APPLICANT: Glenn, Gary M.  
; APPLICANT: Wainock, Dale E.  
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION  
; TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME  
; FILE REFERENCE: 660088.465  
; CURRENT APPLICATION NUMBER: US/10/408,765A  
; CURRENT FILING DATE: 2003-04-04  
; NUMBER OF SEQ ID NOS: 3077  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 824  
; LENGTH: 1441  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-408-765A-824

Query Match 8.0%; Score 85.5; DB 16; Length 1441;  
Best Local Similarity 22.0%; Pred. No. 27; Mismatches 81; Indels 61; Gaps 14;  
Matches 50; Conservative 35

QY 20 IHYDKI--TEINKAIDDAIAAEQSETIDPMK-----VPDHADKFERHV-----GIVDF 67  
DB 343 LHRDTTQTTLQPSVKDGLIVYEDSPLVKAVKLGHLVVDKADKAPTNTVCTILKTLVE- 401  
QY 68 KGLAM---RNIEARGLKQMKRGDANVKEEGIVKHAH-----LLIGVHDDIVSMEYDLA 119  
DB 402 NGEMILADGRRIVA-----NSANVNGRENVVVTHPDRFMIVLANRPGFPFLGNDFF 452  
QY 120 YKLGDLHPTTHVISD-----IQDFVVALS--LEISDEGNITM 156  
DB 453 GTLGDIF-SCHAVDNPKEHSEMLRQYGNVPEPIQLKLVAAFGELRSLADQGIINY-P 510  
QY 157 FEVRQFANVNHIGLSILDPIFGVLSDLVLTAFQ-DTVRKEMTKVL 202  
DB 511 YSTREVNIVKHLQKF-----PTEG-LSSVVRNVDFDSYNNDMREIL 552

RESULT 41  
US-10-423-483-2  
; Sequence 2, Application US/10423483  
; Publication No. US2003026154A1  
; GENERAL INFORMATION:  
; APPLICANT: Ptacek, Louis  
; APPLICANT: White, H. Steve  
; APPLICANT: Fu Ying-Hui  
; APPLICANT: Skradski, Shana  
; TITLE OF INVENTION: MASS 1 GENE, A TARGET FOR ANTICONVULSANT DRUG DEVELOPMENT  
; FILE REFERENCE: 1321.2.53  
; CURRENT APPLICATION NUMBER: US/10/423,483  
; CURRENT FILING DATE: 2003-04-25  
; PRIOR APPLICATION NUMBER: US/10/220,587  
; PRIOR FILING DATE: 2002-12-02

Query Match 8.0%; Score 85.5; DB 12; Length 1441;  
Best Local Similarity 22.0%; Pred. No. 27; Mismatches 81; Indels 61; Gaps 14;  
Matches 50; Conservative 35

QY 20 IHYDKI--TEINKAIDDAIAAEQSETIDPMK-----VPDHADKFERHV-----GIVDF 67  
DB 343 LHRDTTQTTLQPSVKDGLIVYEDSPLVKAVKLGHLVVDKADKAPTNTVCTILKTLVE- 401  
QY 68 KGLAM---RNIEARGLKQMKRGDANVKEEGIVKHAH-----LLIGVHDDIVSMEYDLA 119  
DB 402 NGEMILADGRRIVA-----NSANVNGRENVVVTHPDRFMIVLANRPGFPFLGNDFF 452  
QY 120 YKLGDLHPTTHVISD-----IQDFVVALS--LEISDEGNITM 156  
DB 453 GTLGDIF-SCHAVDNPKEHSEMLRQYGNVPEPIQLKLVAAFGELRSLADQGIINY-P 510  
QY 157 FEVRQFANVNHIGLSILDPIFGVLSDLVLTAFQ-DTVRKEMTKVL 202  
DB 511 YSTREVNIVKHLQKF-----PTEG-LSSVVRNVDFDSYNNDMREIL 552

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; PRIOR APPLICATION NUMBER: US 60/187,209
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: US 60/222,898
; PRIOR FILING DATE: 2000-07-03
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 2780
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-423-483-2

Query Match      8.0%; Score 85.5; DB 12; Length 2780;
Best Local Similarity 21.4%; Pred. No. 70;
Matches 41; Conservative 32; Mismatches 78; Indels 41; Gaps 8;

QY 26 TEENKAIIDDAIAIEQSEITDPMKVPDHADKFERHY-----GIVDFKGLAMRNIEA 78
DB 2508 TVTVNILANDNVAGIVGFQASRSVIGHEGEMLFQFHVTRTPPGRGNVTVNWKVQGQNVLE 2567
QY 79 RGLQMKRQGDANKVGE-----EGIVKAHLIGVHDDIVSME-----YDLAVKLGDLH 126
DB 2568 -----NFANTGQLFSEGTINKTI FVHLLDDNIPKEVYQVLYDV--KTQGV 2616
QY 127 PTHVVISDIOFVVALSLEISDEG-----NITMTS--FEVROFANVV-----NHIGLSIL 175
DB 2617 PAGVALLDAQGYAAVLTVASDEPHGVNLFALSRFVVLQEANVTIQLFVNRFBGSLGAI 2676
QY 176 DPIFGVLSDLT 187
DB 2677 NVTYATVPGIVS 2688

RESULT 42
US-10-587-2
; Sequence 2, Application US/10220587
; Publication No. US20030208782A1
; GENERAL INFORMATION:
; APPLICANT: Ptacek, Louis
; APPLICANT: White, H. Steve
; APPLICANT: Fu, Ying-Hui
; APPLICANT: Skradski, Shana
; TITLE OF INVENTION: MASS 1 GENE, A TARGET FOR ANTICONVULSANT DRUG DEVELOPMENT
; FILE REFERENCE: 1321.2.53
; CURRENT APPLICATION NUMBER: US/10/220,587
; PRIOR FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: US 60/187,209
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: US 60/222,898
; PRIOR FILING DATE: 2000-07-03
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 2780
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-220-587-2

Query Match      8.0%; Score 85.5; DB 15; Length 2780;
Best Local Similarity 21.4%; Pred. No. 70;
Matches 41; Conservative 32; Mismatches 78; Indels 41; Gaps 8;

QY 26 TEENKAIIDDAIAIEQSEITDPMKVPDHADKFERHY-----GIVDFKGLAMRNIEA 78
DB 2508 TVTVNILANDNVAGIVGFQASRSVIGHEGEMLFQFHVTRTPPGRGNVTVNWKVQGQNVLE 2567
QY 79 RGLQMKRQGDANKVGE-----EGIVKAHLIGVHDDIVSME-----YDLAVKLGDLH 126
DB 2568 -----NFANTGQLFSEGTINKTI FVHLLDDNIPKEVYQVLYDV--KTQGV 2616
QY 127 PTHVVISDIOFVVALSLEISDEG-----NITMTS--FEVROFANVV-----NHIGLSIL 175
DB 2617 PAGVALLDAQGYAAVLTVASDEPHGVNLFALSRFVVLQEANVTIQLFVNRFBGSLGAI 2676
QY 176 DPIFGVLSDLT 187
DB 2677 NVTYATVPGIVS 2688

Query Match      8.0%; Score 85; DB 15; Length 878;
Best Local Similarity 24.7%; Pred. No. 15;
Matches 39; Conservative 33; Mismatches 44; Indels 42; Gaps 8;

QY 72 AMRNEARGLQMKRQGDANKVGEIVKA--HLLIGVHDDIVSMEYDLAYKLGDLHPTTH 130
DB 106 ALRQMSAPSAXVLR-----NGEKTSIPARELVVG---DIVSLE-----AGDFIPADG 149
QY 131 VISDIQDFVVALSLEISDEGNITMTSFEVROFANVV-----NHIGLSILDPFG 180
DB 150 RLIDVQNLRV-----EEGMLTGESEFEVKFSDIVEVALGDRKNVFFSSIV--VYG 200
QY 181 VLSDLVTATFOOTVRKEMTKVLADA-----FKRELEK 212
DB 201 RADFLVTATAEQTEIGKIAQMLETAEAQOTPLQOKLEK 238

RESULT 44
US-10-369-493-7986
; Sequence 7986, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 7986
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Rhodobacter sphaeroides
US-10-369-493-7986

Query Match      7.9%; Score 84.5; DB 15; Length 380;
Best Local Similarity 21.7%; Pred. No. 5.1;
```

Matches 47; Conservative 26; Mismatches 77; Indels 67; Gaps 8;  
 QY 8 AAVAFVAGADPIHYDKITEEINKAIDDAIAAEQSEITDPMKVPDHDADKFERHVGIVDF 67  
 Db 31 AARFETGADFEIYARYGNPTTRMFEERAAVEGTE-----DAFATASGMAAI 79  
 QY 68 KGEAMRNTEARGLQKMKQGDANVKGEIGVKAHLIGVHDDIVSMYDLYAYKGLDHP 127  
 Db 80 HGVLT-----SIVRAGD-----HLVAARALFG-----SCIYILEEVLGRGV 116  
 QY 128 TTHVI--SDIQDFVVAL-----SLISDEGNITMTSFEVRQFANVNHIG 170  
 Db 117 EVTFVDGTDLQWRAAVREGTKAVPFESVSNPTLEVADIGAI-----AEIAHVG 166  
 QY 171 GLSILDPIGVLSVLTATFQDVTVRKMTKVLAPAFK 207  
 Db 167 ALVIVDNVFA-----TPVFSTAVRQGDVVIYSATK 197

RESULT 45  
 US-10-282-122A-71072  
 ; Sequence 71072, Application US/10282122A  
 ; Publication No. US20040029129A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wang, Liangsu  
 ; APPLICANT: Zamudio, Carlos  
 ; APPLICANT: Malone, Cheryl  
 ; APPLICANT: Haselbeck, Robert  
 ; APPLICANT: Ohlsen, Kari  
 ; APPLICANT: Zyskind, Judith  
 ; APPLICANT: Wall, Daniel  
 ; APPLICANT: Trawick, John  
 ; APPLICANT: Carr, Grant  
 ; APPLICANT: Yamamoto, Robert  
 ; APPLICANT: Forsyth, R.  
 ; APPLICANT: Xu, H.  
 ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
 ; FILE REFERENCE: ELITRA.0344  
 ; CURRENT APPLICATION NUMBER: US/10/282,122A  
 ; CURRENT FILING DATE: 2003-02-20  
 ; PRIOR FILING DATE: 2000-03-21  
 ; PRIOR FILING DATE: 2000-03-21  
 ; PRIOR FILING DATE: 2000-05-23  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR FILING DATE: 2000-09-06  
 ; PRIOR FILING DATE: 2000-09-06  
 ; PRIOR FILING DATE: 2000-09-09  
 ; PRIOR FILING DATE: 2000-10-23  
 ; PRIOR FILING DATE: 2000-10-23  
 ; PRIOR FILING DATE: 2000-11-27  
 ; PRIOR FILING DATE: 2000-12-22  
 ; PRIOR FILING DATE: 2001-02-09  
 ; PRIOR FILING DATE: 2001-02-16  
 ; PRIOR FILING DATE: 2001-02-16  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 78614  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 71072  
 ; LENGTH: 817  
 ; TYPE: PRT  
 ; ORGANISM: Staphylococcus epidermidis  
 US-10-282-122A-71072

Query Match 7.9%; Score 84.5; DB 12; Length 817;  
 Best Local Similarity 23.0%; Pred. No. 15;  
 Matches 50; Conservative 35; Mismatches 87; Indels 45; Gaps 11;

QY 18 DPH-----YDKITEEINKAIDDAIAAEQSEITDPMKVPDHDADKFERHVGIVDFKELA 72  
 Db 504 DTLHKRVIGQNDVANSISKAVRRARGLK-----DP-----KRPIGSIFLPGTG 548  
 QY 73 MRNIE-ARGL-KQMKQGDANVKGE-EGIVKAHL-----LIGV-----HDDIVSMEYDLAY 120  
 Db 549 VGTETARALAESFGDDAMIRVDMSEFMEKKAVALSGAPPGYVGHDDGGQITKVR 608  
 QY 121 KGLDHPHTHVISD-----IQDFVVALSLEISDEGNITMTSFEVRQFANV-----NHIGGL 172  
 Db 609 K-----FYSVILFDEIEKAHPDVFNNILLQVLDGHLTDTKGRVDFRNTVIIMTSNVGAQ 663  
 QY 173 SILDPIGVLSVLTATFQDVTVRKMTKVLAPAFK 209  
 Db 664 ELQDRFAGFGAGSEGSDDYETVRTMTMKELNSRPE 700

RESULT 46  
 US-10-424-599-160426  
 ; Sequence 160426, Application US/10424599  
 ; Publication No. US20040031072A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa Thomas J  
 ; APPLICANT: Kovalic David K  
 ; APPLICANT: Zhou Yihua  
 ; APPLICANT: Cao Yongwei  
 ; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
 ; FILE REFERENCE: 38-21(53223)B  
 ; CURRENT APPLICATION NUMBER: US/10/424,599  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 285684  
 ; SEQ ID NO 160426  
 ; LENGTH: 281  
 ; TYPE: PRT  
 ; ORGANISM: Glycine max  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: PAT\_MRT3847\_115883C.1.pap  
 US-10-424-599-160426

Query Match 7.8%; Score 83.5; DB 12; Length 281;  
 Best Local Similarity 22.8%; Pred. No. 4.2;  
 Matches 51; Conservative 36; Mismatches 74; Indels 63; Gaps 12;  
 QY 16 SADPIHYDKITEEINKAIDDAIAAEQSEITDPMKVPDHDADKFERHVGI-VDFKELAMR 74  
 Db 54 SOSPELMKTDIVNM-----QLKNLRNVLPTNATLVNIFNIGVHEGKV--- 100  
 QY 75 NIEARGLKMKQGDANVKGEIGV-----AHLIG-VHD-----DIVSMEYDLA 119  
 Db 101 -----GDININGKNYSLKQLHWSPEHMANGRHDAELHLVHLTDEYNIA 147  
 QY 120 -----YKLGDLHPHTHVISDQDFVVALSLEI-----SDRGNITMTSFEV-----RQFANV 167  
 Db 148 VVAVLYKLGDDPD-----LISQFEDKLVLEKEIRAGNKDAQIAGTFFDVEEINRSHRYR 204  
 QY 168 HIGGLSILDPIGVLSVLTATFQDVTVRKMTKV-----LAPAFK 207  
 Db 205 YVGSLLTPPCKEGVTNILGKL--RTLSKKQLELLKAPLGPEFK 246

RESULT 47  
 US-10-408-765A-1398  
 ; Sequence 1398, Application US/10408765A  
 ; Publication No. US20040101874A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ghosh, Soumitra S.  
 ; APPLICANT: Fahy, Boian D.  
 ; APPLICANT: Zhang, Bing  
 ; APPLICANT: Gibson, Bradford W.  
 ; APPLICANT: Taylor, Steven W.  
 ; APPLICANT: Glenn, Gary M.  
 ; APPLICANT: Warnock, Dale E.

```

; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; FILE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408,765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1398
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-1398

Query Match
Best Local Similarity 7.8%; Score 83.5; DB 16; Length 360;
Matches 31; Conservative 29; Mismatches 66; Indels 17; Gaps 4;

QY 21 HYDKITEINKALDAIAAEQSTIDPMKVPDHDYFPERHVGIVDFKGLAMNIEAR- 79
DB 3 HLGKTIKLEKQEMADIVASRTSTLELQNDREYKKNRRE--LAEMQRLKTELEAK 60
QY 80 -GLKMKRQGDANVKGE-----EGIVKAHLIGVHDDIVSMYEDVLAAYKGLDLHPT 128
DB 61 SRLTAMKQDEMRLMEELRDYQRAQDEALTKRQL---EQLKDLLEYELEAKSHLKDDR 117
QY 129 THVISDIODFVVALSLEISDEGN 151
DB 118 SRLVKQMEDKVSQLEMELEERN 140

RESULT 48
US-10-437-963-168034
; Sequence 168034, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 168034
; LENGTH: 405
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_66589C.1.pep
US-10-437-963-168034

Query Match
Best Local Similarity 7.8%; Score 83.5; DB 16; Length 405;
Matches 64; Conservative 35; Mismatches 82; Indels 77; Gaps 14;

QY 7 IAAVAFVAVSADPT-----HYDKITEINKALDAIAAEQ-SETIDPMK-VFDHAD-- 56
DB 126 VAVASALAAVSFSLVLAARGHRIETVPELPLVSDSAESIEKTSQAIKLKQVGAYADAE 185
QY 57 KFERHVGIVDFKGLAMNIEARGLKQMGQDANVKGE--IVKA-HLLIGVHDDIVS 113
DB 186 KAKDSVGIRGKGM-----RNRVINKKGLPIVVGTEGSKIVAFNLPGV--DVAN 236
QY 114 MEYDLAYKGLDLHPTTHV-----ISDIQDFVVALSLE-----ISD 148
DB 237 VE---RLNLLDAPGGHGLGRFVWTSAPFKLEEVYGTFEAPSLKKKGLFLPRGMANAD 293

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

149 EGNITWTSFEVRQFA-----NVVNHIGGSLIDPIRGVLSDLVLTALPQDTV 194
294 LGRI-INSDEVOSVVKPLNKEVKRKRKNPLKPLNVAANVAKLNPYFG-----TA 340
195 RKEMTKVLAPAFKRELEK 212
341 RKMATLAEEAARIKARKEK 358

RESULT 49
US-09-738-626-3526
; Sequence 3526, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAOKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 3526
; LENGTH: 412
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-3526

Query Match
Best Local Similarity 7.8%; Score 83.5; DB 9; Length 412;
Matches 34; Conservative 16; Mismatches 41; Indels 17; Gaps 6;

QY 54 HADKFERHVGIVDFKGLAMNIEARGLKQMGQDANVKGEIGIVKAHLIGVHDDIVS 113
DB 134 YAAEPE---IQPFSGEDSFVTLKGSDFKDALEQ-----QWEEGSAFPVAALGVSDN-VS 183
QY 114 MEYDLAYKGLDLHPTTHVISDI-----QDFVVALSLEISDEGNITMVS 156
DB 184 YTYDINREIFGD-RVTSVTIDTDLDPDRDYVVAASLYL-QSGNEGMTA 229

RESULT 50
US-10-282-122A-78505
; Sequence 78505, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
```

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; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 78505
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Versinia pestis
; US-10-282-122A-78505

Query Match          7.8%; Score 83.5; DB 12; Length 548;
Best Local Similarity 18.1%; Pred. No. 11;
Matches 43; Conservative 45; Mismatches 80; Indels 69; Gaps 9;

QY 13 VAVSADPHYDKITEINKAIDDA--IAAEQSTIDPMKVPDADKFERHVGIVDFKGL 71
Db 107 VAAQNMPE-----DLKRGIDKAVIAAEE--LKKLSVPCSDSKAIAQVGTISANSDS 156

QY 72 AMNIEARGLKQMKRQGDANVKEEGIVKAHLIGVHDD---IVSVEYDLAY-----120
Db 157 TVGELIAQAMEKV-----GKEGVITVEEGSLQDELVDVVEGMQFDRGYLSPFYINK 207

QY 121 -----KLGDLHPTTHVISDIDQFVVALSLISDEGNITMTSPFV 159
Db 208 PETGSTLESPFILLADKKISNIREMLPVLEAVAKAGKPLLIITAEDVEGEALATL-----262

QY 160 RFANVNVHIGGL-----SILDPIFGLSDVLTAFQDVTVRKENTKVLAPAFKKELEK 212
Db 263 -----VNTMRGIVKVAAPKPGF---DRRKAMLODIATLTAGTWISEIGLELEK 311

RESULT 51
US-10-437-963-108671
; Sequence 108671, Application US/10/437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 108671
; LENGTH: 551
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_36378C.1.pep
; US-10-437-963-134622

Query Match          7.8%; Score 83; DB 16; Length 551;
Best Local Similarity 23.1%; Pred. No. 12;
Matches 52; Conservative 25; Mismatches 78; Indels 70; Gaps 10;

QY 7 IAAVAF-VAVSADPHYDKIT-----BEINKAIDDAIAAEQSTIDPMKVPD 53
Db 301 LAHVVGYSGSTGPEHWSLSFNTTCSKGTYSQSPINILKDDAV-----YNPKLEPL 352

QY 54 HADKFERHVGIVDFKGLAMENIEARGLKQMKRQGDANVKEEGIVKAHLIGVHDDIVS 113
Db 353 EMDYTAANTTIVD-----NVFNALRYNDTAGTVKVDGK-----387

QY 114 MEYDLAYKGLDLH---PTTHVISDIDQFVVALSL-EISDEGNITMTSPFVQFANVNH 169
Db 388 -----YKLRQLHWHSPSEHTING-QRFVLELHVHSDGDNITVIAVLYRH-----432

QY 170 GGLSILDPIFGLSDVLTAFQDVTVRKENTKVLAPAF--KKELEK 212

```

```

; LENGTH: 775
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_12903C.1.pep
; US-10-437-963-108671

Query Match          7.8%; Score 83.5; DB 16; Length 775;
Best Local Similarity 22.4%; Pred. No. 18;
Matches 48; Conservative 48; Mismatches 73; Indels 45; Gaps 12;

QY 20 IHVDKITEINKAIDDAIAA-----EQSTIDPMKVPDHA--DKFERHVGIVDFKGL 69
Db 275 LNSSEVVOEMAERVDLVKVMANLELKFQSAIKQLKEDNDSLKDRLD-----DLQD 328

QY 70 ELAMNIEARGLKQMKRQGD--NVKG-BEGIVKAHLIG-VHDDIVSMEYDLAYKGLDL 125
Db 329 EIALRDDPSDLSEQLKLADELKARVKALESVEEIVLSTVSEVVCITNISKAFGSI 388

QY 126 HPTTHVISDIDQFVVALSLISDEGNIT---MTSPFVQFANVNHIGLSILDPIFG- 180
Db 389 DP-----EDMTSLSAAVENDGEITSDISTSLPEEERDAPSQOEFL--LDGIEGR 437

QY 181 --VLSDVLTAFQDVTVRKENTKVLAPAFKKELEK 212
Db 438 EALLDDYTHLEN--YKETKRRLA-----ELEX 464

RESULT 52
US-10-437-963-134622
; Sequence 134622, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 134622
; LENGTH: 551
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_36378C.1.pep
; US-10-437-963-134622

Query Match          7.8%; Score 83; DB 16; Length 551;
Best Local Similarity 23.1%; Pred. No. 12;
Matches 52; Conservative 25; Mismatches 78; Indels 70; Gaps 10;

QY 7 IAAVAF-VAVSADPHYDKIT-----BEINKAIDDAIAAEQSTIDPMKVPD 53
Db 301 LAHVVGYSGSTGPEHWSLSFNTTCSKGTYSQSPINILKDDAV-----YNPKLEPL 352

QY 54 HADKFERHVGIVDFKGLAMENIEARGLKQMKRQGDANVKEEGIVKAHLIGVHDDIVS 113
Db 353 EMDYTAANTTIVD-----NVFNALRYNDTAGTVKVDGK-----387

QY 114 MEYDLAYKGLDLH---PTTHVISDIDQFVVALSL-EISDEGNITMTSPFVQFANVNH 169
Db 388 -----YKLRQLHWHSPSEHTING-QRFVLELHVHSDGDNITVIAVLYRH-----432

QY 170 GGLSILDPIFGLSDVLTAFQDVTVRKENTKVLAPAF--KKELEK 212

```

Db  
603 ---QQAEGDASAEK---|||: :  
624 ---DDVVDADYE---|||: :

RESULT 55  
 US-10-369-493-14213  
 ; Sequence 14213, Application US/10369493  
 ; Publication No. US20030233675A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cao, Yongwei  
 ; APPLICANT: Hinkle, Gregory J.  
 ; APPLICANT: Slater, Steven C.  
 ; APPLICANT: Goldman, Barry S.  
 ; APPLICANT: Chen, Xianfeng  
 ; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
 ; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES  
 ; FILE REFERENCE: 38-10(52052)B  
 ; CURRENT APPLICATION NUMBER: US/10/369,493  
 ; CURRENT FILING DATE: 2003-02-28  
 ; PRIOR APPLICATION NUMBER: US 60/360,039  
 ; PRIOR FILING DATE: 2002-02-21  
 ; NUMBER OF SEQ ID NOS: 47374  
 ; SEQ ID NO 14213  
 ; LENGTH: 633  
 ; TYPE: PRT  
 ; ORGANISM: Agrobacterium tumefaciens  
 US-10-369-493-14213

```
Query Match      7.8%; Score 83; DB 15; Length 633;
Best local similarity 28.3%; Pred. No. 45;
Matches 28; Conservative 16; Mismatches 27; Indels 28; Gaps 4;

23 DKITEINKAIDATA-----AIEQSETIDPMKVPDPHAKDFERHVGVIVDFKGELAMRNIEA 78
   |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
550 DKVSTDRKAIDEATASLTAVEAAE-----PDADIQAQTOTLMSEVMKLGAIYEA 602
                                     ::::~::~:~::~:~::~:~::~:~::~:~::~:~:

79 RGLKQMKGQGDANVGEEGIVRAHLILIGVHDHDIYSMEYD 117
   :::::~::~:~::~:~::~:~::~:~::~:~::~:~:

603 ---QQAEAGDASAEGK-----DDVVVDADYE 624
```

RESULT 56  
 US-10-369-493-14987  
 ; Sequence 14987, Application US/10369493  
 ; Publication No. US20030233675A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cao, Yongwei  
 ; APPLICANT: Hinkle, Gregory J.  
 ; APPLICANT: Slater, Steven C.  
 ; APPLICANT: Goldman, Barry S.  
 ; APPLICANT: Chen, Xianfeng  
 ; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
 ; FILE REFERENCE: 38-10(52052)B  
 ; CURRENT APPLICATION NUMBER: US/10/369,493  
 ; PRIORITY FILING DATE: 2003-02-28  
 ; PRIOR APPLICATION NUMBER: US 60/360,039  
 ; PRIOR FILING DATE: 2002-02-21  
 ; NUMBER OF SEQ ID NOS: 47374  
 ; SEQ ID NO 14987  
 ; LENGTH: 633  
 ; TYPE: prt  
 ; ORGANISM: Agrobacterium tumefaciens  
 ; US-10-369-493-14987

```
Query Match      7.8%; Score 83; DB 15; Length 633;
Best Local Similarity 28.3%; Pred. NO. 15;
Matches 28; Conservative 16; Mismatches 27; Indels 28; Gaps 4;
```



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US-09-874-923-110
; Sequence 110, Application US/09874923
; Patent No. US20020081320A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Meto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Coleir, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; THERAPY AND DIAGNOSIS OF LEISHMANIASIS
; FILE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS
; FILE REFERENCE: 210121.420C8
; CURRENT APPLICATION NUMBER: US/09/874,923
; CURRENT FILING DATE: 2001-06-04
; NUMBER OF SEQ ID NOS: 122
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 110
; LENGTH: 845
; TYPE: PrT
; ORGANISM: Leishmania major
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(845)

```

```
; OTHER INFORMATION: Xaa = Any Amino Acid
US-09-874-923-110

Query Match
Best Local Similarity 7.8%; Score 83; DB 9; Length 845;
Matches 42; Conservative 34; Mismatches 70; Indels 34; Gaps 10;

QY 29 INKAIDDAIAAEQSETIDPMKVPDHADKFERHVGIVDFKGLAMRNIEARGLKQKROG 88
Db 2 VNFTVDQVRELMDYDPQIRNNSVIAHVD-----HGKSTLSDSLVAAGIIRKMEAG 52
QY 89 DANV---KGEIGIVKAHLIGVHDDIVSMYDLAYK-LGDLHPTTHVISDIQDFVALSL 144
Db 53 DKRIMTRADE-IARG---ITIKSTAISHMYHVPKEMIGDLD-----DDKRDFLINL-- 100
QY 145 EISDEGNITMTSFEVRQFANVNVNHIGLSILDPIFGVLSVDLTAIFQDVTVRKEMTKVLAP 204
Db 101 -IDSPGHVDFSS-EVTAALRVTD--GALVVVDCEGVGCQVQTETVL-----RQALTERIRP 151

RESULT 61
US-09-991-496-110
; Sequence 110, Application US/09991496
; Patent No. US20020169285A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Colier, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 210121.420C9
; CURRENT APPLICATION NUMBER: US/09/991.496
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 110
; LENGTH: 845
; TYPE: PRT
; ORGANISM: Leishmania major
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: 315, 324
; OTHER INFORMATION: Xaa = Any Amino Acid
US-09-991-496-110

Query Match
Best Local Similarity 7.8%; Score 83; DB 9; Length 845;
Matches 42; Conservative 34; Mismatches 70; Indels 34; Gaps 10;

QY 29 INKAIDDAIAAEQSETIDPMKVPDHADKFERHVGIVDFKGLAMRNIEARGLKQKROG 88
Db 2 VNFTVDQVRELMDYDPQIRNNSVIAHVD-----HGKSTLSDSLVAAGIIRKMEAG 52
QY 89 DANV---KGEIGIVKAHLIGVHDDIVSMYDLAYK-LGDLHPTTHVISDIQDFVALSL 144
Db 53 DKRIMTRADE-IARG---ITIKSTAISHMYHVPKEMIGDLD-----DDKRDFLINL-- 100
QY 145 EISDEGNITMTSFEVRQFANVNVNHIGLSILDPIFGVLSVDLTAIFQDVTVRKEMTKVLAP 204
Db 101 -IDSPGHVDFSS-EVTAALRVTD--GALVVVDCEGVGCQVQTETVL-----RQALTERIRP 151

RESULT 62
US-10-437-963-106024
; Sequence 106024, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 106024
; LENGTH: 856
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_10506C.1.pap
US-10-437-963-106024

Query Match
Best Local Similarity 7.7%; Score 82.5; DB 16; Length 856;
Matches 44; Conservative 48; Mismatches 85; Indels 47; Gaps 10;

QY 7 IAAVAFVAVSADPIHYDKITSEINKAIDDAIAAEQSETIDPMK-----VPDHADKP 58
Db 346 LRALLFVTINDWPA-LSNLGSGNKGKAYKAYTHCMTDETETNNPVRKKGKHFETADHRTKP 404
QY 59 ERHVGIVDFKGLAMRNIEARGLKQK--KROGDANVKGEGIV-KAHLIGVHDDIVSME 115
Db 405 KHRSGKTVF-----ATVKGKLVFGKPGSPICECDGVGKSKHTLEARNDLKHIE 456
QY 116 YDLAYKLGDLHPT-----THVIS-----DIQDFVALSLEISDEGNI-TWTSF 157
Db 457 -----QRGLDHPEKPKGSHYLSPASVYLSKAERKSMFOCLSIKVPSPGYSTNKRISM 511
QY 158 EVRQFANVNVNHIGLSILDPIFGVLSVDLTAIFQDVTVRKEMTKV 201
Db 512 KEKFTNLKSHDCHVLMIQ-----LLPVIIRGILPDNVRATITKL 551

RESULT 63
US-10-369-493-13650
; Sequence 13650, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 13650
; LENGTH: 1399
; TYPE: PRT
; ORGANISM: Pseudomonas fluorescens
US-10-369-493-13650

Query Match
Best Local Similarity 7.7%; Score 82.5; DB 15; Length 1399;
Matches 40; Conservative 37; Mismatches 81; Indels 43; Gaps 8;

QY 22 YDKITEINKAIDDAIAAEQSETIDPMKVPDHADKFERHVGIVDFKGLAMRNIEARG- 80
```

Db 686 WSKANDEYSKAM--MANLSKEKVID-----RHGDEVEQE-----SFNSMYMWADSGARGS 733  
Qy 81 ----LQMKRQGDANVKGEGIVKAHLIGVHDDIVSMY-----DLAYKGLDL 125  
Db 734 AAQIRQLAGRMGLMAKPGSIETITANFREGSLVQFYFTHGARKGLADTALKTANS 793  
Qy 126 HPTTHVISDIQDFVVALSLEISDEGNITWTSFEVQFANVNVNHIGLSILDPI-FGVLSLD 184  
Db 794 GYLRLRLVDAQDLVVTEIDCGTEHGLMTP-----HIEGGDVVEPLGERSVLGR 842  
Qy 185 VLTALFQDTRKXMTKVLA 205  
Db 843 V---IARDVFKPGTEDI VPA 860

RESULT 64  
US-10-116-275-244  
; Sequence 244, Application US/10116275  
; Publication No. US20030211476A1  
; GENERAL INFORMATION:  
; APPLICANT: Elan Pharmaceutical Technology  
; APPLICANT: O'Mahony, Daniel J.  
; APPLICANT: Brayden, David  
; APPLICANT: Byrne, Daragh  
; APPLICANT: Lambkin, Imelda  
; APPLICANT: Higgins, Lisa  
; TITLE OF INVENTION: Genetic Analysis of Peyer's Patches and M Cells and Methods and  
; TITLE OF INVENTION: Compositions Targeting Peyer's Patches and M Cell Receptors  
; FILE REFERENCE: E1067/20087  
; CURRENT APPLICATION NUMBER: US/10/116,275  
; CURRENT FILING DATE: 2002-10-04  
; NUMBER OF SEQ ID NOS: 349  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 244  
; LENGTH: 2339  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-116-275-244

Query Match 7.7%; Score 82.5; DB 15; Length 2339;  
Best Local Similarity 24.2%; Pred. No. 1.1e+02;  
Matches 39; Conservative 32; Mismatches 49; Indels 41; Gaps 7;  
Qy 45 TIDPMKVPDHADKFERHVGIVDFKGL-----AMRNIARGLKQMKRQ----- 88  
Db 2091 TINPLCIEMYADK-ESRGVLEPEGTVEIKFKEDLIKSMRRIIDPAYKLMEOQLGEPDLS 2149  
Qy 89 DANVKGEEGIVKAHLIGVHDDIVSMYEDLAYKGLDLHPT-----THVISDIQDFVVAL 142  
Db 2150 DKDRKDLGRLKAR-----EDLLPIYHQVAVQFADFDHTPGRMLEKGVISDILEWKTAR 2204  
Qy 143 S-----LEISDEGNITWTSFEVQFANVNVNHIGLSIL 175  
Db 2205 TFLYWRRLRLLEDQ-----VKQEILOASGELSHVHIQSM 2240

RESULT 65  
US-10-092-900A-218  
; Sequence 218, Application US/10092900A  
; Publication No. US20040043382A1  
; GENERAL INFORMATION:  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Spytek, Kimberly A.  
; APPLICANT: Shenoy, Suresh G.  
; APPLICANT: Taupier Jr., Raymond J.  
; APPLICANT: Pena, Carol E.A.  
; APPLICANT: Li, Li  
; APPLICANT: Zerhusen, Bryan D.  
; APPLICANT: Gusev, Vladimir Y.  
; APPLICANT: Ji, Weizhen  
; APPLICANT: Gorman, Linda  
; APPLICANT: Miller, Charles E.  
; APPLICANT: Kekuda, Ramesh

; APPLICANT: Patturajan, Meera  
; APPLICANT: Gangolli, Bsha A.  
; APPLICANT: Vernet, Corine A.M.  
; APPLICANT: Guo, Xiaojia Sasha  
; APPLICANT: Tchernev, Velizar T.  
; APPLICANT: Fernandes, Elma R.  
; APPLICANT: Casman, Stacie J.  
; APPLICANT: Malyankar, Uriel M.  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Liu, Yi  
; APPLICANT: Anderson, David W.  
; APPLICANT: Spaderna, Steven K.  
; APPLICANT: Catterton, Elina  
; APPLICANT: Leite, Mario W.  
; APPLICANT: Zhong, Haihong  
; APPLICANT: Alsobrook, John P.  
; APPLICANT: Lepley, Denise M.  
; APPLICANT: Rieger, Daniel K.  
; APPLICANT: Burgess, Catherine E.  
; TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-290C  
; CURRENT APPLICATION NUMBER: US/10/092,900A  
; CURRENT FILING DATE: 2002-03-07  
; PRIOR APPLICATION NUMBER: USN 60/274,322  
; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: USN 60/283,675  
; PRIOR FILING DATE: 2001-04-13  
; PRIOR APPLICATION NUMBER: USN 60/338,092  
; PRIOR FILING DATE: 2001-12-03  
; PRIOR APPLICATION NUMBER: USN 60/274,281  
; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: USN 60/274,191  
; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: USN 60/325,681  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: USN 60/304,354  
; PRIOR FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: USN 60/279,995  
; PRIOR FILING DATE: 2001-03-30  
; PRIOR APPLICATION NUMBER: USN 60/294,899  
; PRIOR FILING DATE: 2001-05-31  
; PRIOR APPLICATION NUMBER: USN 60/287,424  
; PRIOR FILING DATE: 2001-04-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; SEQ ID NO 218  
; LENGTH: 2498  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-092-900A-218

Query Match 7.7%; Score 82.5; DB 12; Length 2498;  
Best Local Similarity 24.2%; Pred. No. 1.2e+02;  
Matches 39; Conservative 32; Mismatches 49; Indels 41; Gaps 7;  
Qy 45 TIDPMKVPDHADKFERHVGIVDFKGL-----AMRNIARGLKQMKRQ----- 88  
Db 2250 TINPLCIEMYADK-ESRGVLEPEGTVEIKFKEDLIKSMRRIIDPAYKLMEOQLGEPDLS 2308  
Qy 89 DANVKGEEGIVKAHLIGVHDDIVSMYEDLAYKGLDLHPT-----THVISDIQDFVVAL 142  
Db 2309 DKDRKDLGRLKAR-----EDLLPIYHQVAVQFADFDHTPGRMLEKGVISDILEWKTAR 2363  
Qy 143 S-----LEISDEGNITWTSFEVQFANVNVNHIGLSIL 175  
Db 2364 TFLYWRRLRLLEDQ-----VKQEILOASGELSHVHIQSM 2399

RESULT 66  
US-10-289-762-894  
; Sequence 894, Application US/10289762  
; Publication No. US20040006218A1  
; GENERAL INFORMATION:

APPLICANT: Griffais, R.  
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection  
FILE REFERENCE: 9710-003-999  
CURRENT APPLICATION NUMBER: US/10/289,762  
CURRENT FILING DATE: 2003-03-27  
NUMBER OF SEQ ID NOS: 6849  
SEQ ID NO 894  
LENGTH: 397  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
US-10-289-762-894

Query Match  
Best Local Similarity 20.4%; Score 82; DB 15; Length 397;  
Matches 46; Conservative 44; Mismatches 69; Indels 66; Gaps 11;  
QY 23 DKITEE-----INKAIDDAIAAIEQSETIDPMKVPDADKFE-----RH 61  
DB 155 NKFTKQIGIRILTKA---SISAIEESQNVRTVNDQVEEFDYVLVAIGRQNTASIGLDN 211  
QY 62 VGIV-DFKGLAMRNIIEARGLKQMKROG-----ANVKGEGIVKAHLIGVHDDIVS 113  
DB 212 AGVIRDRGVIPVDETMTNVPNIYAIGDITGKWLALAHVASHQGVIAAKNISGHHE---V 268  
QY 114 MEYDLAYKGLDHPHTTHVISDIOFVVALSLEISDEGNI--TWTSFEVRQ-----161  
DB 269 MDYSAIPSVIFTHP-----EIAMVGLSLOEAEQQLPAKLTFFPKFAIGKAVAGAS 320  
QY 162 --FANVNH-----IGGLSILDFIFGVLSDVLTAFQDVTVRKEMT 199  
DB 321 DGFAAIVSHEITQOILGAYVIGHASSLIGEMTL-----AIRNELT 361

RESULT 67  
US-09-841-132-399  
Sequence 399, Application US/09841132  
Patent No. US20020061848A1  
GENERAL INFORMATION:  
APPLICANT: Bhatia, Ajay  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Probst, Peter  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND DIAGNOSIS OF CHLAMYDIAL INFECTION  
FILE REFERENCE: 210121.469C8  
CURRENT APPLICATION NUMBER: US/09/841,132  
CURRENT FILING DATE: 2001-04-23  
NUMBER OF SEQ ID NOS: 599  
SOFTWARE: FastSeq for Windows Version 3.0/4.0  
SEQ ID NO 399  
LENGTH: 461  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
US-09-841-132-399

Query Match  
Best Local Similarity 7.7%; Score 82; DB 9; Length 461;  
Matches 46; Conservative 44; Mismatches 69; Indels 66; Gaps 11;  
QY 23 DKITEE-----INKAIDDAIAAIEQSETIDPMKVPDADKFE-----RH 61  
DB 219 NKFTKQIGIRILTKA---SISAIEESQNVRTVNDQVEEFDYVLVAIGRQNTASIGLDN 275  
QY 62 VGIV-DFKGLAMRNIIEARGLKQMKROG-----ANVKGEGIVKAHLIGVHDDIVS 113  
DB 276 AGVIRDRGVIPVDETMTNVPNIYAIGDITGKWLALAHVASHQGVIAAKNISGHHE---V 332  
QY 114 MEYDLAYKGLDHPHTTHVISDIOFVVALSLEISDEGNI--TWTSFEVRQ-----161  
DB 333 MDYSAIPSVIFTHP-----EIAMVGLSLOEAEQQLPAKLTFFPKFAIGKAVAGAS 384  
QY 162 --FANVNH-----IGGLSILDFIFGVLSDVLTAFQDVTVRKEMT 199

DB 385 DGFAAIVSHEITQOILGAYVIGHASSLIGEMTL-----AIRNELT 425  
RESULT 68  
US-10-282-122A-54983  
Sequence 54983, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 54983  
LENGTH: 461  
TYPE: PRT  
ORGANISM: Chlamydia pneumoniae  
US-10-282-122A-54983

Query Match  
Best Local Similarity 7.7%; Score 82; DB 12; Length 461;  
Matches 46; Conservative 44; Mismatches 69; Indels 66; Gaps 11;  
QY 23 DKITEE-----INKAIDDAIAAIEQSETIDPMKVPDADKFE-----RH 61  
DB 219 NKFTKQIGIRILTKA---SISAIEESQNVRTVNDQVEEFDYVLVAIGRQNTASIGLDN 275  
QY 62 VGIV-DFKGLAMRNIIEARGLKQMKROG-----ANVKGEGIVKAHLIGVHDDIVS 113  
DB 276 AGVIRDRGVIPVDETMTNVPNIYAIGDITGKWLALAHVASHQGVIAAKNISGHHE---V 332  
QY 114 MEYDLAYKGLDHPHTTHVISDIOFVVALSLEISDEGNI--TWTSFEVRQ-----161  
DB 333 MDYSAIPSVIFTHP-----EIAMVGLSLOEAEQQLPAKLTFFPKFAIGKAVAGAS 384  
QY 162 --FANVNH-----IGGLSILDFIFGVLSDVLTAFQDVTVRKEMT 199  
DB 385 DGFAAIVSHEITQOILGAYVIGHASSLIGEMTL-----AIRNELT 425





```
Best Local Similarity 23.0%; Pred. No. 60;
Matches 40; Conservative 26; Mismatches 47; Indels 61; Gaps 8;

QY 23 DKITEINKAIDDAIAISQSETIDPMKVPDHDADKPERHVGIVDFKGLAME-----74
Db 1132 EDIKEINLIBREFITYEQSKVINPKIL-----KPCR-----GELGKILNSNNVN 1179
QY 75 -----NIEARGLKQKQGDANVKGEIGVKAHLIGV-----HDDIVSMEYDLAYKL 122
Db 1180 KEMFISIEIPALIEIKELDKBIYKDEKLIQ-----GVDCVFEEDGLVLLDYKTDY-- 1232
QY 123 GDLHPHTHVISDIQDFWALSLEISDEGNITMTSFVROFANVNVNHIGLSILD 176
Db 1233 -----VNDIE-----EIKRYEI-----QIKYEEALNRITGKNVKD 1264

RESULT 74
US-10-424-599-197313
; Sequence 197313, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 197313
; LENGTH: 222
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_201C.1.pap
US-10-424-599-197313

Query Match 7.6%; Score 81; DB 12; Length 222;
Best Local Similarity 25.9%; Pred. No. 5.5;
Matches 50; Conservative 31; Mismatches 70; Indels 42; Gaps 12;

QY 17 ADPIHVDKITEINKAID-DAIAAISQ-----ETIDPMKVPDHDADKPERHVGIVDFKGL 71
Db 35 AKPRHEAKVVD-----VDLSLEAIEKSSQSAVEALDLRAKGVLSFERRL-----80
QY 72 AMRNIARGLK--QMKRQGDANVKGEIGVKAHLIGV---HDDIVSMEYDLAYKLGDL 125
Db 81 -KENIAR-LKYPNQDPDFADSEVELHLEQLKVLASAPFYPDLVSL--NVVPSIVDL 136
QY 126 --HPTTHVISDI---QDFVVALSLEISDEGNITMTSFVROFANVNVNHIGLSILD 177
Db 137 LNHDTDAIDVWQLQDLTNEVDLDDNDSARVLVDALVENSALIELVQNLRLNDSDP 196
QY 178 -----IFGVLSDV 185
Db 197 DKNAAVYGTATV 209

RESULT 75
US-10-424-599-239257
; Sequence 239257, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
```

```
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 239257
; LENGTH: 296
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(296)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT3847_58074C.1.pap
US-10-424-599-239257

Query Match 7.6%; Score 81; DB 12; Length 296;
Best Local Similarity 21.6%; Pred. No. 8.3;
Matches 44; Conservative 37; Mismatches 69; Indels 54; Gaps 9;

QY 41 EQSETIDPMKVPDHDADK--ERHVGIVDFKGLAMRNIARGLKQMKRQGDANVKGEIGI 98
Db 79 EAENIIDNMHV--KPKDFLWASLLGGCRHGNLELAKRAKALYEISPENPATY-----I 131
QY 99 VKAHL--IGVHDDIVSMEYDL-----AYKLGDLHPTTHVISDI 135
Db 132 TLANIYANAGLWSEVANVRKMDNNGIVKPKGSWIEIKRQVHVLVDTSPPK--TSDI 189
QY 136 QDFVVALSLEISDEGNITMTSF-----EVRQFANVNVNHIGLSILDPIFGVLS----- 183
Db 190 HEFLGELSKKIKESGYVDPDTNFVLHDVEEKEQNLVYHSEKLA---AFGIISTPPGTP 246
QY 184 -----DVLTAIFQDTVRKEMTKVL 202
Db 247 IKVFNKLTCTVDCHTAIKYISKIV 270

RESULT 76
US-09-991-138-12
; Sequence 12, Application US/09991138
; Publication No. US20030040091A1
; GENERAL INFORMATION:
; APPLICANT: Trimbur, Donald E.
; APPLICANT: Whited, Gregory M.
; APPLICANT: Selifanova, Olga V.
; TITLE OF INVENTION: Mutant 1,3-Propanediol Dehydrogenase
; FILE REFERENCE: GC860-2D1
; CURRENT APPLICATION NUMBER: US/09/991,138
; CURRENT FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: US 09/570,778
; PRIOR FILING DATE: 2000-05-14
; PRIOR APPLICATION NUMBER: US 60/134,868
; PRIOR FILING DATE: 1999-05-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 385
; TYPE: PRT
; ORGANISM: Clostridium pasteurianum
US-09-991-138-12

Query Match 7.6%; Score 81; DB 10; Length 385;
Best Local Similarity 23.8%; Pred. No. 12;
Matches 48; Conservative 39; Mismatches 71; Indels 44; Gaps 10;

QY 2 MKFLIIAAVAFVAVSA-DPIHVDKITEINKA--IDDAIAAIEQSEITIDPMKVPDHDADK 58
Db 161 IKFVIVSWNLPLVSINDPILMKPACLTATGMDALTHALESVSKDANPVD-----215
QY 59 ERHVGIVDFKGLAMRNI--ARGLKQMKRQGDANVKGEIGVKAHLIGVHDDIVSMEY 116
Db 216 -----ALAIQALKIANNLRQVALGE-NLEARENNAVASLALAGAFNANILGY 263
QY 117 --DLAYKLGDLHPTTHVISDIQDFVVALSLEISDEGNITMTSFVROFANVNVHIG---- 170
```

Db 264 VMAVAHQGLGGLYMAHGVAN-----AMLLPHVRYNLISNP-----KKFADIAEPFGNIE 314

QY 171 GLSI-----LDPIFGVLSDV 185

Db 315 GLSVMEAAEKAIDANFLRSKDV 336

## RESULT 77

US-10-369-493-10081

; Sequence 10081, Application US/10369493

; Publication No. US20030233675A1

; GENERAL INFORMATION:

; APPLICANT: Cao, Yongwei

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Goldman, Barry S.

; APPLICANT: Chen, Xianfeng

; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

; FILE REFERENCE: 38-10(52052)B

; CURRENT APPLICATION NUMBER: US/10/369,493

; PRIOR FILING DATE: 2003-02-28

; PRIOR APPLICATION NUMBER: US 60/360,039

; PRIOR FILING DATE: 2002-02-21

; NUMBER OF SEQ ID NOS: 47374

; SEQ ID NO 10081

; LENGTH: 442

; TYPE: PRT

; ORGANISM: magnetite-containing magnetic coccus

US-10-369-493-10081

Query Match 7.6%; Score 81; DB 15; Length 442;

Best Local Similarity 21.9%; Pred. No. 15;

Matches 39; Conservative 33; Mismatches 50; Indels 56; Gaps 8;

QY 49 MKVPDADKFERHVGIVDFKGE-----LAMRNIEARGLKMQRQGDANVKGEIGV 99

Db 88 LNAFNLTPKQHYLSISQACGDTLGLINDILDSKIEA-----GELHLE----- 132

QY 100 KAHLLIGVHDD--IVSNEYDLAYKLG-----DLPHTHVISDIQDF-----VVALS 143

Db 133 --HTLFAHLDELKSLTLMRLRNADKGLSMQCVTDPLPHVHGDPQRFQIVLNLLSNA 190

QY 144 LEISDEGNITMTSFEVR-----QFANVNVHIGGLSILDPFGVLSDLVLTAFQDTVRKE 197

Db 191 LKFTDQSGITLHAKPIETGRLOF-----TVSDTGTGMPGEQVITKIFRPFVQAE 238

## RESULT 78

US-10-282-122A-48944

; Sequence 48944, Application US/10282122A

; Publication No. US20040029129A1

; GENERAL INFORMATION:

; APPLICANT: Wang, Liangsu

; APPLICANT: Zamudio, Carlos

; APPLICANT: Malone, Cheryl

; APPLICANT: Haselbeck, Robert

; APPLICANT: Ohlsen, Kari

; APPLICANT: Zyskind, Judith

; APPLICANT: Wall, Daniel

; APPLICANT: Trawick, John

; APPLICANT: Carr, Grant

; APPLICANT: Yamamoto, Robert

; APPLICANT: Forsyth, R.

; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA.034A

; CURRENT APPLICATION NUMBER: US/10/282,122A

; PRIOR FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: 60/191,078

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: 60/206,848

; PRIOR FILING DATE: 2000-05-23

; PRIOR APPLICATION NUMBER: 60/207,727

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: 60/230,335

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: 60/230,347

; PRIOR FILING DATE: 2000-09-09

; PRIOR APPLICATION NUMBER: 60/242,578

; PRIOR FILING DATE: 2000-10-23

; PRIOR APPLICATION NUMBER: 60/253,625

; PRIOR FILING DATE: 2000-11-27

; PRIOR APPLICATION NUMBER: 60/257,931

; PRIOR FILING DATE: 2000-12-22

; PRIOR APPLICATION NUMBER: 60/267,636

; PRIOR FILING DATE: 2001-03-09

; PRIOR APPLICATION NUMBER: 60/269,308

; PRIOR FILING DATE: 2001-02-16

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 48944

; LENGTH: 545

; TYPE: PRT

; ORGANISM: Bacteroides fragilis

US-10-282-122A-48944

Query Match 7.6%; Score 81; DB 12; Length 545;

Best Local Similarity 20.3%; Pred. No. 20;

Matches 43; Conservative 33; Mismatches 82; Indels 54; Gaps 7;

QY 13 VAVSADPIHYDKITEINKAIDDAIAIEQSETIDPMKVPDADKFERHVGIVDFKGLA 72

Db 106 VTGASPM-----DIKGDIDKAVKVVDISKQAQKGVNDYKIEQ--VATVSNNDPV 157

QY 73 MNIEARGLKMQRQGDANVKGEIGVKAHLIGVHDDIVSMEYDLAYKGLDLPHTTH-- 130

Db 158 ICKLIADAMRKVKDGVITIEEAKG---TDTTIGV---VEGQDFRGVLSAYFVTNTEKM 211

QY 131 -----VISDIQDFVVALSLEISDEGNITWTSFEVQFANVNVHIGLSILD 176

Db 212 ECEMEKPIILYDKKISNEKDFLPILEPAVO-----SGRPILV 249

QY 177 PIFGVLSDVLTAFQDTVRKEM--TKVLAPAF 206

Db 250 IAEDVDSEALTLTVNRLRSQKICAVKAPGF 281

## RESULT 79

US-10-221-625-23

; Sequence 23, Application US/10221625

; Publication No. US20040033942A1

; GENERAL INFORMATION:

; APPLICANT: INCYTE GENOMICS, INC.

; APPLICANT: HILLMAN, Jennifer L.

; APPLICANT: BAUGHN, Mariah R.

; APPLICANT: YUE, Henry

; APPLICANT: LAL, Preeti

; APPLICANT: LU, Dyung Aina M.

; APPLICANT: PATTERSON, Chandra

; APPLICANT: AZIMZAI, Yalda

; APPLICANT: BANDMAN, Olga

; APPLICANT: TANG, Y. Tom

; APPLICANT: MATHUR, Preete

; APPLICANT: SHAH, Purvi

; APPLICANT: AU-YOUNG, Janice

; APPLICANT: REDDY, Roopa

; TITLE OF INVENTION: TRANSCRIPTION FACTORS

; FILE REFERENCE: PF-0761 PCT

; CURRENT APPLICATION NUMBER: US/10/221,625

; CURRENT FILING DATE: 2001-03-13

; NUMBER OF SEQ ID NOS: 214

; SOFTWARE: PERL Program

; SEQ ID NO 23

; LENGTH: 767



```

; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040033942A1 1359294CD1
US-10-221-625-23

Query Match
Best Local Similarity 7.6%; Score 81; DB 12; Length 767;
Matches 36; Conservative 29; Mismatches 56; Indels 36; Gaps 8;

QY 15 VSADPHYDKITEINKAIDDAIAEQSETIDPMKVPHAD-KPERHVGIV---DFKGE 70
DQ 543 VSAEKYK---THSVNGITEEADPTYSKGVIRPLRSVDPTOTEOGMIEIVEGDMKE 599
QY 71 LAMRETEARGLKQKQFQANVKGEGIVKAHLIGVHVDIIVSMYDLA-----119
DQ 600 -----VYFPGIVGMANKGDCLOKES--VKFQLCV-LGQNAQTMAYNITPLRRATVECVK 651

QY 120 -----YKGLDHPHTTHVISDIDQFVVALSLEISDE 149
DQ 652 DQGFYINYEVDGSKLFFHVKEVD---GIELQAGDE 685

RESULT 80
US-10-282-122A-57903
; Sequence 57903, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: EUTRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 57903
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Enterococcus faecium
US-10-282-122A-57903

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Query Match
Best Local Similarity 7.5%; Score 80.5; DB 12; Length 245;
Matches 41; Conservative 35; Mismatches 69; Indels 31; Gaps 8;

QY 64 IVDFKGL---AMRNIEARGLKQKQGDAN-----VKGEIGVKAHLIT---GVH 108
DQ 33 ILNGRGEIPKEKIEIEAFGKVCVSGDISDYEKAGQMIKEAEKGLSIHVLVNNAGIT 92
QY 109 DDIVSMYDLA-YK-----LGDLPHTTHVISDI-----QDFVVALSLEISDEGNITWTS 156
DQ 93 NDKLVMRDAEDFKKCLDINLIGTFNMTQHVLYKQMKQREGAIINLSVSGLIGNIQAN 152
QY 157 FEVQFANVNNHIGGLSLIDPIFGVLSDLTAIQDVTVRKEMTKVLAPAPKRELEK 212
DQ 153 YAASK-AGVGLTKSVAREATRGITCAIAPG---ITDMEVLADKVKQAEK 204

RESULT 81
US-10-424-599-197424
; Sequence 197424, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 197424
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_202C.1.pep
US-10-424-599-197424

Query Match
Best Local Similarity 7.5%; Score 80.5; DB 12; Length 323;
Matches 48; Conservative 32; Mismatches 60; Indels 55; Gaps 10;

QY 31 KAIDDAIA-----AIEQS-----ETIDPMKVPDHADKFERHVGIVDFKGL 71
DQ 14 RKFDVAVSNGVAPADVDLSLEIAIEKSONAVEALDLALKKHVLSFERRL-----64
QY 72 AMRNIEARGLK---QMKRQGDANVKGEGIVKAHLIG---VHDDIVSMYDVLAYKGLD 125
DQ 65 -KDNTEAR-LKYPNQDFPADSEVELHEELQKLVLAGAPELYPLDVLN---NVVPSIVDL 120
QY 126 HPTTHVISDIDQFVVALSLEISDEGNITWTSPEVRQFAN-----VNNHIGGLSL 175
DQ 121 --LHNDNTDIAIDVVQLQDLTDVLDNDNDSARVLDALVDNSALELLVQNLHRLNDS 178
QY 176 DP-----IFGVLSDV 185
DQ 179 DPENAAVYGLATV 193

RESULT 82
US-10-437-963-166236
; Sequence 166236, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.

```

APPLICANT: Barbazuk, Brad  
APPLICANT: Li, Ping  
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
FILE REFERENCE: 38-21(53221)B  
CURRENT APPLICATION NUMBER: US/10/437,963  
CURRENT FILING DATE: 2003-05-14  
NUMBER OF SEQ ID NOS: 204966  
SEQ ID NO 166236  
LENGTH: 324  
TYPE: PRT  
ORGANISM: Oryza sativa  
FEATURE:  
NAME/KEY: unsure  
LOCATION: (1) (324)  
OTHER INFORMATION: unsure at all Xaa locations  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT4530\_64965C.1.pap  
US-10-437-963-166236

Query Match  
Best Local Similarity 20.3%; DB 16; Length 324;  
Matches 43; Conservative 34; Mismatches 76; Indels 59; Gaps 8;

QY 3 KPLIAAVAFV-AVSADPIHYDKITEINKAIDDAIAI---EQSETID-----47  
DB 97 REPLIAIADYIFQVSFALLAQKEMTEAVTKAVQDAILKIGFVNQWERLDKEXSKLTDRA 156  
QY 48 -----PMK--VPDHADKFERHVGIVDFKGLAMNTEARGLKQK-----85  
DB 157 VLETOEPKKEVSSNDGHPKDTYDSSG-----NIDAQTRQARLHRLTRNCGMG 211  
QY 86 -----ROGDANVKGEGIVKAHLI-----GVHDDIVSMEYDL-----AYKLGDLHPT 128  
DB 212 TSNHHQOQNNRVPDDPYAKFKIPSGFWGYDAEKYLNKEMTVEQKFSALHVPKQHRV 271  
QY 129 THVISDIOQFVVALSLEISDEGNITMTSFEVR 160  
DB 272 ROASSEFKDAIMXWTGLADEGVLPFTTWEELK 303

RESULT 83  
US-10-369-493-181  
Sequence 181, Application US/10369493  
Publication No. US20030233675A1  
GENERAL INFORMATION:  
APPLICANT: Cao, Yongwei  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Goldman, Barry S.  
APPLICANT: Chen, Xianfeng  
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
FILE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES  
FILE REFERENCE: 38-10(52052)B  
CURRENT APPLICATION NUMBER: US/10/369,493  
CURRENT FILING DATE: 2003-02-28  
PRIOR APPLICATION NUMBER: US 60/360,039  
PRIOR FILING DATE: 2002-02-21  
NUMBER OF SEQ ID NOS: 47374  
SEQ ID NO 181  
LENGTH: 540  
TYPE: PRT  
ORGANISM: Xenorhabdus nematophilus  
US-10-369-493-181

Query Match  
Best Local Similarity 7.5%; Score 80.5; DB 15; Length 540;  
Matches 44; Conservative 42; Mismatches 82; Indels 69; Gaps 9;

QY 13 VASADPIHYDKITEINKAIDDAIAAIEQSETIDPMKVPDHDADKFERHVGIVDFKGL 71  
DB 107 VAAGNPM-----DLKRGIDKAVIAVBE---LKLKSVPCSDSTAIAQVGTISANDE 156

QY 72 AMRNIARGLKQMKROGDANVKGEGIVKAHLIIGVHDD---IVSMEYDLAY-----120  
DB 157 TVGKLIAEAMDKV-----GKEGIVTVEEGTGLEDELDDVVEGQDFRGYLSPYFINK 207  
QY 121 -----KLGDLHPTTHVISDIOQFVVALSLEISDEGNITMTSFEV 159  
DB 208 PEAGSIELENPYILLVDKISNIRELLPVLGVAKASKPLVIAEDVEGEALATL-----262  
QY 160 RQFANVNVHIGL-----SILDFIFGVLSDVLTAFQDVTVRKEMTKVLAPFAFKRELEK 212  
DB 263 -----VNNMRGIVKVAAPKPGFG---DRKXAMLDIATLTNGTVIISEIGLELEK 311

RESULT 84  
US-10-282-122A-56251  
Sequence 56251, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: Patent version 3.1  
SEQ ID NO 56251  
LENGTH: 547  
TYPE: PRT  
ORGANISM: Enterobacter cloacae  
US-10-282-122A-56251

Query Match  
Best Local Similarity 7.5%; Score 80.5; DB 12; Length 547;  
Matches 43; Conservative 43; Mismatches 82; Indels 69; Gaps 9;

QY 13 VASADPIHYDKITEINKAIDDAIAAIEQSETIDPMKVPDHDADKFERHVGIVDFKGL 71  
DB 107 VAAGNPM-----DLKRGIDKAVIAVBE---LKLKSVPCSDSKAIAQVGTISANDE 156  
QY 72 AMRNIARGLKQMKROGDANVKGEGIVKAHLIIGVHDD---IVSMEYDLAY-----120

US-10-437-963-144132

Query Match 7.5%; Score 80; DB 16; Length 600;  
Best Local Similarity 25.1%; Pred. No. 29;  
Matches 45; Conservative 24; Mismatches 74; Indels 36; Gaps 9;

QY 45 TIDPMKVPDHADKFERHVGIVDFKGLAMRNIEAR--GLKQ-MKROGDANVKYBEGIVKA 101  
DB 71 TCEPDVPPDKNQTGEHAGWHNGEAYFTIEQKIDEIKQEFKKQ--LKIKGIMDKIKH 128  
QY 102 HLLIGVHDDIVSMEYDLAYKLGDLHPTTHVTSIDIQDFVALSLEISDEGNITMTSFEVRQ 161  
DB 129 HLI-----EYKIKHDLPNCEPL--IILKFDDMMGGRWE---EFNLDWTMGCRQ 173  
QY 162 PANVNH-----IGLS-----ILDPFGVLSVLTALFODTYRKWKVLAPAF 206  
DB 174 RFDALHRYLVCVDVIGGKGVKSCVNDPVHGFITTI--ARKQHVETRUSHLARHF 230

RESULT 87  
US-10-369-493-10217  
; Sequence 10217, Application US/10369493  
; Publication No. US2003023675A1  
; GENERAL INFORMATION:  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng  
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B  
; CURRENT APPLICATION NUMBER: US/10/369,493  
; CURRENT FILING DATE: 2003-02-28  
; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21  
; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 10217  
; LENGTH: 720  
; TYPE: PRT  
; ORGANISM: Cytophaga hutchinsonii  
US-10-369-493-10217

Query Match 7.5%; Score 80; DB 15; Length 720;  
Best Local Similarity 24.2%; Pred. No. 37;  
Matches 47; Conservative 36; Mismatches 69; Indels 42; Gaps 9;

QY 20 IHVDKITEEI-----NKAIDDAIAAIEQSETID---PMKVPDH---ADKFERHVGIVDF 67  
DB 525 IYPANTEVLAIVLATSDKITTSIDAIKQLKLTGTEVMTLGDNTFTAEATAKQVGISQF 584  
QY 68 KGLAMRNTEARGLKMKRQGDANVKYBEGIVKAHLLIGVHDDIVSMEYDLAYKLG----- 123  
DB 585 KAEV-LPSDKANFVKELQAQK-----VVMVGDGINDSNALQAQVSIAMGKSD 634  
QY 124 ---DLHPTTHVTSIDIQDFVALSLEISDEGNITMTSFEVRQ---PANVNHIG---GLSI 174  
DB 635 IAMDVAKMTIISDLSKIPQAIKLS-----TYVNAIRQNLFWAFIYNIGIPLAAGI 687  
QY 175 LDPFGVLSVLTAL 188  
DB 688 LYPFTGFLNPNIA 701

RESULT 88  
US-09-738-626-5468  
; Sequence 5468, Application US/09738626  
; Publication No. US20020197605A1  
; GENERAL INFORMATION:  
; APPLICANT: NAKAGAWA, SATOSHI  
; APPLICANT: MIZOGUCHI, HIROSHI  
; APPLICANT: ANDO, SEIKO  
; APPLICANT: HAYASHI, MIKIRO

APPLICANT: OCHIAI, KEIKO  
APPLICANT: YOKOI, HARUHIKO  
APPLICANT: TATSUSHI, NAKO  
APPLICANT: SENOH, AKIHIRO  
APPLICANT: IKEDA, MASATO  
APPLICANT: OKAZAKI, AKIO  
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
FILE REFERENCE: 249-125  
CURRENT APPLICATION NUMBER: US/09/738,626  
CURRENT FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: JP 99/377484  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: JP 00/159162  
PRIOR FILING DATE: 2000-04-07  
PRIOR APPLICATION NUMBER: JP 00/280988  
PRIOR FILING DATE: 2000-08-03  
NUMBER OF SEQ ID NOS: 7059  
SOFTWARE: Patent in ver. 3.0  
SEQ ID NO 5468  
LENGTH: 831  
TYPE: PRT  
ORGANISM: Corynebacterium glutamicum  
US-09-738-626-5468

Query Match 7.5%; Score 80; DB 9; Length 831;  
Best Local Similarity 24.4%; Pred. No. 46;  
Matches 43; Conservative 31; Mismatches 70; Indels 32; Gaps 8;  
QY 29 INKADDAIAAEQSEETIDP---MKVPDHADKFER-----HVGIVDFK---G 69  
DB 97 INLVNDDIHSVVTPELLDSVLGVPD-ADSFDRMDFDLRNKARWHYGVAAIEPDTG 155  
QY 70 ELAMNRIEAGLKQKQROGDANVKGEEGIVKXHLIGVHD--DIVSMYDIAYLKGLDHP 127  
DB 156 ELVWFVKPAK-----NSASARGDIFSEVGDVLSGAADLEDVVDFFV-IATFLEVINE 206  
QY 128 TTVHSIDIQDFVVALSLEISDEGNITMTSFVRQFANVNVNHHGGLSILDPFVGLS 183  
DB 207 TSEVIDDEDGVPVGLGCVNNAAGV-ITDDLIREKLDVDSVPSSAEIIDNIVHVFT 261

RESULT 89  
US-10-093-463-126  
Sequence 126, Application US/10093463  
Publication No. US20030208039A1  
GENERAL INFORMATION:  
APPLICANT: Padigar, Muralidhara  
APPLICANT: Shenoy, Suresh  
APPLICANT: Kekuda, Ramesh  
APPLICANT: Gusev, Vladimir  
APPLICANT: Pochart, Pascal  
APPLICANT: Zhong, Mei  
APPLICANT: Rastelli, Luca  
APPLICANT: Mezes, Peter  
APPLICANT: Smithson, Glenda  
APPLICANT: Guo, Xiaojia  
APPLICANT: Gerlach, Valerie  
APPLICANT: Casman, Stacie  
APPLICANT: Boldog, Ferenc  
APPLICANT: Li, Li  
APPLICANT: Zernusen, Bryan  
APPLICANT: Tchernev, Velizar  
APPLICANT: Gangolli, Esha  
APPLICANT: Vernet, Corine  
APPLICANT: Pena, Carol  
APPLICANT: Burgess, Catherine  
APPLICANT: Liu, Xiaohong  
APPLICANT: Gorman, Kimberly  
APPLICANT: Spaderna, Steven  
APPLICANT: Voss, Edward  
APPLICANT: Malyankar, Uriel  
APPLICANT: Anderson, David

APPLICANT: Patturajan, Meera  
APPLICANT: Miller, Charles  
APPLICANT: Taupier, Raymond J. Jr.  
TITLE OF INVENTION: No. US20030208039A1 Antibodies that Bind to Antigenic Polypeptic  
TITLE OF INVENTION: Encoding The Antigens, and Methods of Use.  
FILE REFERENCE: 21402-290A (Cura 590AT)  
CURRENT APPLICATION NUMBER: US/10/093,463  
CURRENT FILING DATE: 2002-06-24  
PRIOR APPLICATION NUMBER: 60/283,675  
PRIOR FILING DATE: 2001-04-14  
PRIOR APPLICATION NUMBER: 60/338,092  
PRIOR FILING DATE: 2001-12-03  
PRIOR APPLICATION NUMBER: 60/274,281  
PRIOR FILING DATE: 2001-03-08  
PRIOR APPLICATION NUMBER: 60/274,101  
PRIOR FILING DATE: 2001-03-08  
PRIOR APPLICATION NUMBER: 60/325,681  
PRIOR FILING DATE: 2001-09-27  
PRIOR APPLICATION NUMBER: 60/304,354  
PRIOR FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/279,995  
PRIOR FILING DATE: 2001-03-30  
PRIOR APPLICATION NUMBER: 60/294,899  
PRIOR FILING DATE: 2001-05-31  
PRIOR APPLICATION NUMBER: 60/287,424  
PRIOR FILING DATE: 2001-04-30  
PRIOR APPLICATION NUMBER: 60/299,027  
PRIOR FILING DATE: 2001-06-18  
PRIOR APPLICATION NUMBER: 60/309,198  
PRIOR FILING DATE: 2001-07-31  
PRIOR APPLICATION NUMBER: 60/281,194  
PRIOR FILING DATE: 2001-04-04  
PRIOR APPLICATION NUMBER: 60/274,194  
PRIOR FILING DATE: 2001-03-08  
PRIOR APPLICATION NUMBER: 60/274,849  
PRIOR FILING DATE: 2001-03-09  
PRIOR APPLICATION NUMBER: 60/330,380  
PRIOR FILING DATE: 2001-10-18  
PRIOR APPLICATION NUMBER: 60/275,235  
PRIOR FILING DATE: 2001-03-12  
PRIOR APPLICATION NUMBER: 60/288,342  
PRIOR FILING DATE: 2001-05-03  
PRIOR APPLICATION NUMBER: 60/275,578  
PRIOR FILING DATE: 2001-03-13  
NUMBER OF SEQ ID NOS: 370  
SOFTWARE: Patent in Ver. 2.1  
SEQ ID NO 126  
LENGTH: 3003  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-093-463-126

Query Match 7.5%; Score 80; DB 15; Length 3003;  
Best Local Similarity 19.9%; Pred. No. 2.9e+02;  
Matches 54; Conservative 43; Mismatches 79; Indels 96; Gaps 14;  
QY 2 MKFLLIAVAFVAVSADPIHYDKITEINK--AIDDAIAAEQSE--TIDPMKVPDHADK 57  
DB 658 MTEMDESSGLLTTTC-PLDYEMKTHILTVLALDDGTALSSQTLTVTVLDVNDAPV 716  
QY 58 FERHGVDFKGLAMRNIEARGLKQKQGDANVKGEEGIVKXHLIGVHDDIVSM--- 114  
DB 717 FKQHL-----YEA-SVKENQNPGEF-VTRVEALDRDSVFUNTRB--LNMCF 759  
QY 115 -EYDLAYKLGDLHPHTTHVISDIQD-----FVVALSLEI-----SD 148  
DB 760 AFYDAVFKNGLSAQAFVVRVDLEDVNDHPVFNPSYTVTSISDETPQGTETINVLATQD 819  
QY 149 EGNITWTSFEVQFANVNVNHHGGLSILDPFVGL----- 182  
DB 820 SGYGTWAYEL-----IPGNVSLFTIDSTTGTGIIYTLPLSHLESTTSLMVSADGGGL 874  
QY 183 -----SDVLTAIFQDTRKMTKVLAPA-FKR 208

Db 875 TAVINADVTHIFQTT-----LAPAEFER 898

RESULT 90

US-10-282-122A-68540  
; Sequence 68540, Application US/10282122A  
; Publication No. US20040029129A1

GENERAL INFORMATION:

; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A

; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 68540

; LENGTH: 329  
; TYPE: PR1

; ORGANISM: Proteus mirabilis

US-10-282-122A-68540

Query Match 7.4%; Score 79.5; DB 12; Length 329;  
Best Local Similarity 17.7%; Pred. No. 14;  
Matches 42; Conservative 46; Mismatches 80; Indels 69; Gaps 9;

Qy 13 VAVSADPHYDKITEEINKAIDDA-IAAEQSEITDPMKVPDHPADKFERHVGIVDFKGL 71  
Db 107 VAGNPM-----DLKRGIDKAVGAVEE---LKLSPVCSPTKALIAQVGTISANSDE 156  
Qy 72 AMRNIARGLKOMKRGQDANVKGEGIVKAHLIGVHDD---IVSMYDYLAY----- 120  
Db 157 TVGTLLIAQAMEKV-----GKEGVITVEGTGLELDVVEGMOQFDRGYLSPYFINK 207  
Qy 121 -----KLGDLHPTTHVDSIQDFVVALSLEISDEGNITMTSFEV 159  
Db 208 PETGTAELNPFILLVDKVNINRELLPVLGVAKANKPLIIAEDVEGALATL----- 262  
Qy 160 RQFANVNHIGGL-----SILDPFGVLSVLTALFQDTRKEMTKVLAPAFKRELEK 212  
Db 263 -----VNNMRGIVKVAAPGFG---DRKAMQLDIALITNGTIVISEIGMELEK 311

RESULT 91

US-10-282-122A-73215  
; Sequence 73215, Application US/10282122A  
; Publication No. US20040029129A1

GENERAL INFORMATION:

; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A

; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 73215

; LENGTH: 547  
; TYPE: PR1

; ORGANISM: Salmonella paratyphi A

US-10-282-122A-73215

Query Match 7.4%; Score 79.5; DB 12; Length 547;  
Best Local Similarity 17.8%; Pred. No. 28;  
Matches 42; Conservative 42; Mismatches 85; Indels 67; Gaps 8;

Qy 13 VAVSADPHYDKITEEINKAIDDAIAAEQSEITDPMKVPDHPADKFERHVGIVDFKGLA 72  
Db 107 VAGNPM-----DLKRGIDKAVAA--AVEELKALSPVCSKALIAQVGTISANDET 157  
Qy 73 MENIARGLKOMKRGQDANVKGEGIVKAHLIGVHDD---IVSMYDYLAY----- 120  
Db 158 VOKLIAEAMDKV-----GKEGVITVEGTGLELDVVEGMOQFDRGYLSPYFINKP 208  
Qy 121 -----KLGDLHPTTHVDSIQDFVVALSLEISDEGNITMTSFEV 160  
Db 209 ETGAVELESPPILLADKKISNIREMLPVLGAAGAKGKPLIIAEDVEGALATL----- 262  
Qy 161 QFANVNHIGGL-----SILDPFGVLSVLTALFQDTRKEMTKVLAPAFKRELEK 212  
Db 263 -----VNNMRGIVKVAAPGFG---DRKAMQLDIALITNGTIVISEIGMELEK 311

```
RESULT 92
US-10-282-122A-75259
; Sequence 75259, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 75259
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Salmonella typhimurium
US-10-282-122A-75259

Query Match 7.4%; Score 79.5; DB 12; Length 548;
Best Local Similarity 17.8%; Pred. No. 29;
Matches 42; Conservative 42; Mismatches 85; Indels 67; Gaps 8;

QY 13 VAVSADPIHYDKITEINKAIDDAIAAEQSETIDPMKVPDHDADKFERHVGIVDFKGEA 72
Db 107 VAGNPNM-----DLKRGIDKAVAA--AVEELKALSVPCSDSKATAQVGTISANSDET 157
QY 73 MRNIEARGLKQMKROGDANVKGEIGIVKAHLIIIGVHDD---IVSMEYDLAY----- 120
Db 158 VGKLIAREAMDKV-----GKEGVITVEDGTGLQDELVDVVEGMQFDRGYLSPYFINKP 208
QY 121 -----GKEGVITVEDGTGLQDELVDVVEGMQFDRGYLSPYFINKP 208
Db 209 ETGAVELESPPFILLADKKISNIREMLPVLEAVAKAGKPLIIIAEDVEGEALATL----- 262
QY 161 QFANVNVHIGGL-----SILDPIFGVLSVLTAFQDVTVRKEMTKVLAPAFKRELEK 212
Db 263 ----VVNMTMRGIVKVAVKAFGFG---DRRKMLQDIATLTGGTVISEEIGMELEK 311

RESULT 93
US-10-282-122A-76037
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; Sequence 76037, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 76037
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Salmonella typhi
US-10-282-122A-76037

Query Match 7.4%; Score 79.5; DB 12; Length 548;
Best Local Similarity 17.8%; Pred. No. 29;
Matches 42; Conservative 42; Mismatches 85; Indels 67; Gaps 8;

QY 13 VAVSADPIHYDKITEINKAIDDAIAAEQSETIDPMKVPDHDADKFERHVGIVDFKGEA 72
Db 107 VAGNPNM-----DLKRGIDKAVAA--AVEELKALSVPCSDSKATAQVGTISANSDET 157
QY 73 MRNIEARGLKQMKROGDANVKGEIGIVKAHLIIIGVHDD---IVSMEYDLAY----- 120
Db 158 VGKLIAREAMDKV-----GKEGVITVEDGTGLQDELVDVVEGMQFDRGYLSPYFINKP 208
QY 121 -----GKEGVITVEDGTGLQDELVDVVEGMQFDRGYLSPYFINKP 208
Db 209 ETGAVELESPPFILLADKKISNIREMLPVLEAVAKAGKPLIIIAEDVEGEALATL----- 262
QY 161 QFANVNVHIGGL-----SILDPIFGVLSVLTAFQDVTVRKEMTKVLAPAFKRELEK 212
Db 263 ----VVNMTMRGIVKVAVKAFGFG---DRRKMLQDIATLTGGTVISEEIGMELEK 311

RESULT 94
US-10-282-122A-44041
; Sequence 44041, Application US/10282122A
; Publication No. US20040029129A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 44041
; LENGTH: 664
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-10-282-122A-44041

Query Match 7.4%; Score 79.5; DB 12; Length 664;
Best Local Similarity 21.6%; Pred. No. 38;
Matches 35; Conservative 31; Mismatches 51; Indels 45; Gaps 5;

QY 1 MMKFLITAAVAVASADPHYDKITEINKAIDDAIAAEQSEITDPMKV-----51
Db 355 IFSLLMTALVSFVAMAFNGKYEETPDVIGSVKEA-----EQIFNKNLKLKIGKISRSYSD 410
QY 52 -----PQHADKFER--HVGIVDFKG-----ELAMENIEARGLKQW 84
Db 411 KYPENEIKTPTNGERVERGSDVDVTSKGPVKMVPNVIGLPKEALQKLSGLKDV 470
QY 85 KRQDANVKEEGI-----VKAHLIGVHDDIVSMYVDLAYK 121
Db 471 TIEKVVNQAQPKGYIANQSVTANTEIAIHDSNIXLYESLGIK 512

RESULT 95
US-09-815-242-10901
; Sequence 10901, Application US/09815242
; Patent No. US2002061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.

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; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE REFERENCE: ELITRA 011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10901
; LENGTH: 718
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-815-242-10901

Query Match 7.4%; Score 79.5; DB 9; Length 718;
Best Local Similarity 19.9%; Pred. No. 42;
Matches 45; Conservative 36; Mismatches 98; Indels 47; Gaps 8;

QY 5 LLITAAVAVASADPHYDKITEINKAIDDAIAAEQSEITDPMKVPDHADKFERHVGI 64
Db 345 LAIGLAFAMSGKDVDPVDTNETKAAASQALQSGAKVDSYTKIED--DKIE-----397
QY 65 VDFKGLAMRNIEARGLKQMKR-----QSDANVKEEGIVKAHLIGVHDD 110
Db 398 ---EGKVVKTDPKAKSVKDRSVTLIYSSGTEKIEMADYTNESYSAVEALKLGFSED 454
QY 111 IVSMEYDLAYKGLDLPHTHVIS-----DIQDFVALSLEISDSGNITMTSFEVRQ 161
Db 455 QITTKKEYS----DSVSTDNIIKQPAAGKKVDPKKDKVTITVSEGPEA-VILPSIAGYS 509
QY 162 FANVNVHIGGLSILDPFGLVDLVLTAFQ--DITVRKEMTKVLAPA 205
Db 510 YTNVAVNLAQL-----GISESQITRVDQASDTVPEGLVITQDPA 548

RESULT 96
US-10-282-122A-53037
; Sequence 53037, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078

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; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTOR POLYNUCLEOTIDES AND METHODS OF USE THE
; FILE REFERENCE: D0191 NP
; CURRENT APPLICATION NUMBER: US/10/219,834
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: US 60/313,658
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: US 60/340,703
; PRIOR FILING DATE: 2001-10-30
; PRIOR APPLICATION NUMBER: US 60/318,675
; PRIOR FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: US 60/355,596
; PRIOR FILING DATE: 2002-02-06
; PRIOR APPLICATION NUMBER: US 60/333,417
; PRIOR FILING DATE: 2001-11-26
; PRIOR APPLICATION NUMBER: US 60/338,367
; PRIOR FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 150
; LENGTH: 1577
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-834-150

Query Match          7.4%; Score 79.5; DB 14; Length 1577;
Best Local Similarity 20.9%; Pred. No. 1.3e+02;
Matches 41; Conservative 32; Mismatches 70; Indels 53; Gaps 8;

QY 26 TEEINKAIDDAIAAEQSETIDPMKVPDADKPERHV-----GIVDFKGLAMRNIEA 78
DB 225 TVRVNLANDNVAGIVSFQTASRSVIGHEGELQFHVIRTFPGRGVTVVNWKIIGQNLEL 284
QY 79 RGLKQMKRQGDANVKGE-----EGIVKAHLILIGVHDDIVSME-----YDLAYKLGDLH 126
DB 285 -----NPFNSGQLFFPEGSLSNTTLFVHLDDNIPKEKEVYQVILYDV--RTQGV 333
QY 127 PTHHVISDIQDFVVALSLEISD-----EGNITMTSFEVROFANVNH 168
DB 334 PAGIALDDAQGYAAVLTVEASDEPHGVNLFALSSRFVLLQEANITIQLFINREFGS---- 389
QY 169 IGLLSI-LDPIFGVLS 183
DB 390 LGAINVTYTTVPGMLS 405

RESULT 100
US-10-834-149
; Sequence 149, Application US/10219834
; Publication No. US20030096751A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: G-PROTEIN COUPLED RECEPTOR POLYNUCLEOTIDES AND METHODS OF USE THE
; FILE REFERENCE: D0191 NP
; CURRENT APPLICATION NUMBER: US/10/219,834
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: US 60/313,658
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: US 60/340,703
; PRIOR FILING DATE: 2001-10-30
; PRIOR APPLICATION NUMBER: US 60/318,675
; PRIOR FILING DATE: 2001-09-12
; PRIOR APPLICATION NUMBER: US 60/355,596
; PRIOR FILING DATE: 2002-02-06
; PRIOR APPLICATION NUMBER: US 60/333,417
; PRIOR FILING DATE: 2001-11-26
; PRIOR APPLICATION NUMBER: US 60/338,367
; PRIOR FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 149
; LENGTH: 1615
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-219-834-149

Query Match          7.4%; Score 79.5; DB 14; Length 1615;
Best Local Similarity 20.9%; Pred. No. 1.3e+02;
Matches 41; Conservative 32; Mismatches 70; Indels 53; Gaps 8;

QY 26 TEEINKAIDDAIAAEQSETIDPMKVPDADKFERHV-----GIVDFKGLAMRNIEA 78
DB 263 TVRVNLANDNVAGIVSFQTASRSVIGHEGELQFHVIRTFPGRGVTVVNWKIIGQNLEL 322
QY 79 RGLKQMKRQGDANVKGE-----EGIVKAHLILIGVHDDIVSME-----YDLAYKLGDLH 126
DB 323 -----NPFNSGQLFFPEGSLSNTTLFVHLDDNIPKEKEVYQVILYDV--RTQGV 371
QY 127 PTHHVISDIQDFVVALSLEISD-----EGNITMTSFEVROFANVNH 168
DB 372 PAGIALDDAQGYAAVLTVEASDEPHGVNLFALSSRFVLLQEANITIQLFINREFGS---- 427
QY 169 IGLLSI-LDPIFGVLS 183
DB 428 LGAINVTYTTVPGMLS 443

Search completed: August 6, 2004, 16:07:18
Job time : 49 secs
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